

REVISED MANUAL 2003

A Supplemental Guide
For Completing the Alaska Quarterly Contribution
Report

ALASKA Occupational Coding Manual

Including Geographic Codes

State of Alaska
Department of Labor and Workforce Development
Frank H. Murkowski, Governor

ODB Manual, Revised January 2003

Each employer doing business in the State of Alaska is required by law to participate in the state unemployment insurance system. Employers must report the social security number, name, wages, occupation, and place of work on the **Alaska Quarterly Contribution Report** (Form 1004) for each employee who received wages during the quarter. This booklet is to help employers comply with occupational and geographic coding requirements. Information provided by employers is used in the aggregate to determine training and other labor force needs for the state. Individual information is kept confidential.

The Department of Labor and Workforce Development understands the burden reporting requirements can place on employers. We know that time spent reporting to government agencies takes away from the productivity of your business. However, the information you provide helps us learn more about the composition of Alaska's workforce. We believe that this information improves our understanding of the state's economy and helps create a better trained, more competent labor pool geared to the needs of Alaska's employers.

The Department of Labor recently established a web site for employers to input information for the Alaska Quarterly Contribution Report. This was designed to make it easier for employers to comply with Alaska State regulations.

To access this site and for more information about submitting wage information online, go to <http://www.labor.state.ak.us/estax/home.htm>

This booklet is provided to you in hard copy and can also be found at the state's web site. Please visit <http://www.labor.state.ak.us/research/erg/occmanual.pdf> for an electronic copy.

This booklet incorporates comments and suggestions received since last publication. If you have additional ideas about the content or structure of this booklet, please let us know.

ALASKA DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT

Research and Analysis Section, Occupational Database Unit

P.O. BOX 25513, Juneau, Alaska 99802-5513

Telephone: (800) 478-2771 toll-free in Alaska or (907) 465-2771 collect outside Alaska

Fax: (800) 325-9872 toll-free within Alaska or the continental U.S.

E-mail: odb@labor.state.ak.us

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GUIDE TO CODING

Occupational Codes

Use the six-digit code that *best* describes the activities of the employee. In some cases, the six-digit code has been expanded to identify occupations important to the state. For instance, seafood-processing workers are coded as 51-3022.05.

Select a code based on the work *actually performed*--not the code for jobs for which employees might be trained. For example, an employee trained as a Computer Scientist, but working as a Manager, should be coded as a Manager.

Read the detailed descriptions of codes you select to insure you have a match to the duties of the employee. Occupations that are similar are often distinguished by key words like *routine*, *non-routine*, *mechanical*, or *hand*.

Supervisors of professional and technical workers are classified with the workers they supervise. Similarly, supervisors, team leaders, and lead workers of sales, service, and production workers who spend at least 20 percent of their time *performing work similar to the workers they supervise* are classified with those workers. Supervisors and first-line managers of sales, service, and production workers who spend more than 80 percent of their time in supervisory activities are coded separately from the people they supervise. If no separate category is indicated, code the supervisor with the workers they oversee.

An occupation that combines two different activities is reported with the code for the activity that requires the *highest skill or educational level*. If these levels are the same, report the code for the occupation in which the employee spends the most time.

Employees who changed jobs during a quarter should be reported in their *last* occupation. Do not list the employee more than once on the same Quarterly Contribution Report.

Code apprentices, student teachers, and trainees in the occupation for which they are training.

Identify aides, helpers, and laborers separately if they are *not training* for the occupation in which they are helping, or if their work is truly different.

If the duties of an occupation are not described in the detailed occupations, code the occupation in the appropriate "*All other*" residual category.

O*NET OnLine is an application that can be used to find more information about the occupational coding for your employees. The O*NET database includes information on skills, abilities, knowledges, typical educational requirements, work activities, and interests associated with occupations. Visit <http://online.onetcenter.org/> for more information.

Geographic Codes

Determine where the employee performed work within the state. If you are familiar with the geography of Alaska, you can use the map on page 7 to find the two-digit geographic code. You can also look up the code for the employee's place of work in the regional list of geographic codes starting on page 8. The communities listed in the regions appear alphabetically.

Choose the code for the employee's primary work site during the quarter. Often employees change work sites from one quarter to another. If your employee worked at different locations during the quarter, code for the most recent primary work site. If the employee travels statewide, for example as a sales representative, use the code for the location in which the employee spends the most time.

Do not use the home office of the employer unless that is the location where the employee worked.

Code employees working out of state as "99".

Code employees working in offshore locations, such as floating fish processors or permanent offshore oil drilling operations, as "20".

Code employees who received wages but did not work during the quarter as "00".

Online Alaska Quarterly Contribution Reporting

The Department of Labor recently established a web site for employers to report wage information for their employees via the Web. Employers can now submit Quarterly Contribution Reports and have them received by the State in a 24-hour period. This design makes it easier for employers to comply with Alaska State regulation thereby avoiding penalty and interest payments due to late reporting. It is also easier to code your employee's occupation and geographic codes by using the drop-down boxes included in the Web system.

To file your Alaska Quarterly Contribution Report online, you must have a valid Alaska Employer Account Number, a valid Federal Employer Identification Number (FEIN), and a personal identification number (PIN). To obtain a PIN, go to <http://www.labor.state.ak.us/estax/home.htm> and click on the icon for filing your Quarterly Contribution Reports. PINs are automatically assigned and sent within minutes to your email address.

FREQUENTLY ASKED QUESTIONS

Why did you send this book to me? Why do I need it?

This book contains the information you need to complete Columns 14 and 15 of your firm's *Alaska Quarterly Contribution Report* (Form 1004). This information is required under Alaska Statutes 23 and 36.

How do I use the book?

Find the appropriate occupational and geographic codes for each of your employees following the "Guide to Coding" on page 1. Record the codes in Columns 14 and 15 of your contribution report form.

Geographic codes are listed in the front of this book, beginning on page 7. There is a map of Alaska with a list of all the valid codes. Following the map is an alphabetical list by region of all the worksite locations in Alaska and their geographic codes.

The occupational codes begin on page 16. There are two ways to find occupational codes in this booklet. An alphabetical list of common job titles and their codes begin on page 16. Starting on page 37 is the numeric list of occupational codes along with detailed descriptions of the duties typically performed by a worker with this code. Choose the code the best describes your employee's work duties.

Can I enter the information online?

Yes, the Department of Labor and Workforce Development recently launched a web site that will make it easier for employers to provide wage information to the State of Alaska. For more information, go to <http://www.labor.state.ak.us/estax/home.htm> and click on the icon for filing your Quarterly Contribution Reports.

Why can't I use my SIC or NAICS code in Column 14?

The Standard Industrial Classification (SIC) and the North American Industry Classification System (NAICS) identify the primary activity of your *business*. The occupational code identifies the primary duties of the *workers* employed in your business. A single occupation, for example an accountant, is found in many different industries.

Can I use the four-digit occupational code that I used on a previous quarterly report?

No, you cannot use four-digit codes any longer. The U.S. Department of Labor's *Standard Occupational Classification* system underwent a major revision in 1998, most notably changing from four- to six-digit codes and adding over 150 occupational titles. Using the job title, look up the new code for each of your employees. If you would like to search for an occupation online, check the Research and Analysis web site at <http://almis.labor.state.ak.us> and click on the occupational information icon.

Why did the codes change?

The old coding system had not been updated for several years. Missing from the codes were many of today's jobs, such as database administrator, paramedic, and aerobics instructor. The revised codes reflect the shifts in occupations that have occurred in the last 20 years. In addition, all federal agencies will adopt these new codes so you will no longer need to keep track of more than one occupational code for reporting purposes.

It would save us a lot of time if your office could use our occupation codes. Is this possible?

Yes. We would be glad to use your firm's internal job codes. Contact the Occupational Database Unit at (907) 465-2771 or (800) 478-2771 toll-free in Alaska for an explanation of how this process works.

Our employment files are computerized. Can we send information in an electronic format?

Yes. The Department of Labor wants to reduce the burden of reporting and increase the accuracy of the information we collect. Please contact *Production and Media Control* at (907) 465-2758 for more information about submitting your data in electronic format or visit <http://www.labor.state.ak.us/estax/home.htm> and click the icon for submitting your Quarterly Contribution Report online. Detailed instructions can be found here for reporting format and batch submission requirements.

I use a payroll tax service. Will they report my firm's occupational and geographic codes?

Some payroll tax services will report this information. You will need to contact your tax service directly to arrange for them to report your occupational and geographic codes when they file your quarterly unemployment contribution report.

How do I find an occupational code?

There are two ways to do this:

Search for a job title. In the "Alphabetical List of Job Titles", beginning on page 16, locate a job title that you believe best describes the *highest skilled job* an employee performs. To the right of the job title is the six-digit occupational code. Using this number, refer to the "Detailed Descriptions of Occupations" beginning on page 37 and find the description of the job duties associated with this code. If the description matches your employee's duties, then enter the code in Column 14.

Search for a job code. In the "Numeric List of Occupational Codes", beginning on page 37, you can locate an occupational code and see if the corresponding occupational title matches the *highest skilled job* an employee performs.

Why can't I find my employee's job title in your alphabetical list?

Workers within an occupation may have many different job titles. The Alaska Department of Labor and Workforce Development follows the *Standard Occupational Classification 1998* system. We have expanded the list of basic occupations by including many popular job titles. If you cannot find the job title that your firm uses, try looking for an associated or alternative title for that occupation. For example, if you have an employee who works as a Building Custodian, you won't find that job title in the alphabetical listing; however, Custodian, Janitor, and Cleaner are all listed as (37-2011).

I found the job title for one of my workers, but the duties described are different from the duties the worker actually performs. Why is that?

The job titles that you use to identify occupations within your business may not be the same as the ones used in the manual. If your job title does not match the description of duties, scan nearby codes to find a better match or try an alternative job title.

Why are there no supervisors listed for most professional occupations?

Supervisors of professional and technical workers are classified with the workers they supervise. Similarly, supervisors, team leaders, and lead workers of sales, service and production workers who spend at least 20 percent of their time performing work similar to the workers they supervise are classified with those workers. Those who spend more than 80 percent of their time in supervisory activities are coded separately from the people they supervise. If no separate category is indicated, code the supervisor with the workers they oversee. *The key here is the amount of time spent in direct supervision versus the time spent performing tasks similar to the supervised workers.*

Where do I code a Consultant?

Consultants are coded with the occupation they perform, for example, a Computer Systems Consultant is reported as a Computer Systems Analyst (15-1051). General business consultants are reported as

Management Analysts (13-1111).

Do I have to use a code or can I just write my employee's title in Column 14?

A descriptive occupational title is acceptable. We encourage you to use codes because you know the duties of your employees and can therefore assign the most accurate codes. Titles that you report are converted to codes in our office by people who may know very little about your particular industry. If you choose to submit a title, please help improve our accuracy by being as descriptive and complete as possible. For example, Clerk is not descriptive enough because there are 26 different occupation codes for clerks. You need to list the type of clerk, such as Accounting Clerk or Payroll and Timekeeping Clerk.

What if my employee does two different jobs?

An occupation that combines two different activities is reported with the code for the occupation that requires the highest level of skill or education. If the skill levels are the same, report the occupation in which the employee spends the most time. For employees who change jobs during the quarter because of transfers, promotions, demotions, or reclassifications report only their *last* occupation.

Where will I find a carpenter's apprentice?

All apprentice workers, including student teachers, are classified with the appropriate skilled trade occupation. In this case, the apprentice is coded the same as a carpenter (47-2031).

How do I code an employee who assists another employee?

Identify aides, helpers, and laborers *separately* if they are not training for the occupation in which they are helping, or if their work is truly different. Code apprentices, student teachers, and trainees in the occupation for which they are training. If the assistant has job duties different from the occupation they support, such as Dental Assistant, code the employee separately. If the assistant's duties are similar to the occupation they support, such as Assistant Manager, classify the assistant in the same category as the manager.

My employee didn't actually work during the quarter. We paid an after-season bonus. What code do I use?

If the employee did not work during the reported quarter, but wages were paid *for any reason*, record the code for the last job that the employee performed while working in Column 14. Record "00" in Column 15 to indicate that the employee did not work. In this case, the employee's actual place of work is not reported.

My employee only works part-time. Does that change the occupation code I use?

No, part-time employees are reported in the occupation that they perform, regardless of the number of hours they work.

How do I find geographic codes?

There are two methods for determining the geographic code for your employees:

Search by city or place name. If you know the city or place name where your employees work, turn to the List of Geographic Codes beginning on page 8. Find the location name in the list and enter its two-digit code in Column 15.

Find the employee's place of work on the map. If you are familiar with the geography of Alaska, you can refer to the map on page 7 for the geographic code.

Why do I have to supply a geographic code? You know the address of my company.

Often employees work in locations other than the home office of the employer. The geographic code should indicate the location where the employee actually performed work during the quarter.

I'm in California. My company has employees working in Alaska, but I don't know what they do or where they are.

This is best handled by consulting with your firm's manager or supervisor in Alaska.

My employee travels statewide. What is the correct geographic code?

Choose the code for the location in which the employee spends the most time.

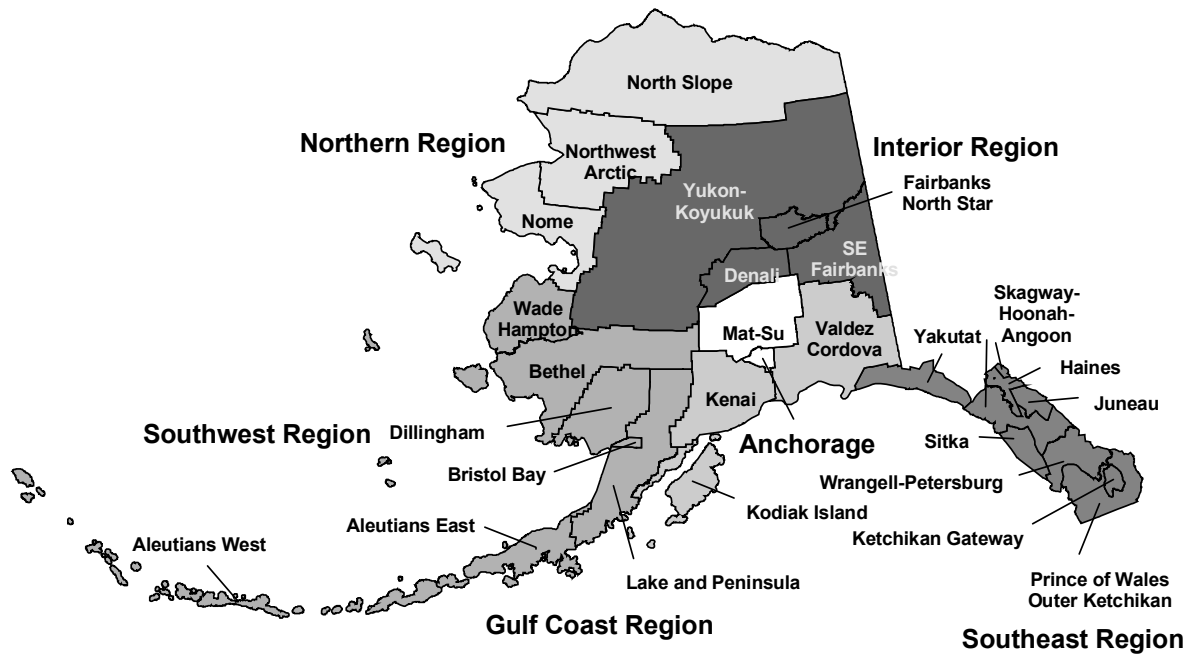
I have a question about my tax rate. Can you help me with that?

Sorry, the Occupational Database Unit deals only with occupation and geographic coding. For questions about your tax rate or other parts of Form 1004, you should contact an *Employment Security Tax Specialist* at (907) 465-2757 or toll-free from Alaska or Canada at (888) 448-3527.

What if I still have questions or can't find the proper code for an employee?

If you don't find the answer to your question here, the staff of the Occupational Database Unit can help you choose an occupational or geographic code to complete your Contribution Report. Information on how to contact us is listed inside the front cover.

Map of Alaska for Geographic Codes



CODE PLACE

Northern Region

34	Nome
31	North Slope Borough
33	Northwest Arctic Borough

Interior Region

47	Denali Borough
44	Fairbanks North Star Borough
45	Southeast Fairbanks
41	Yukon-Koyukuk

Southwest Region

57	Aleutians East Borough
58	Aleutians West
52	Bethel
55	Bristol Bay Borough
50	Dillingham
59	Lake and Peninsula Borough
51	Wade Hampton

CODE PLACE

Anchorage Region

62	Municipality of Anchorage
61	Matanuska-Susitna Borough

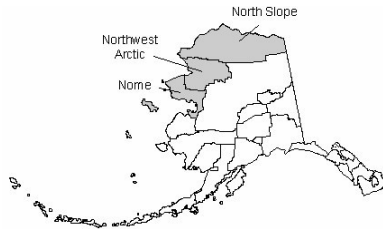
Gulf Coast Region

71	Kenai Peninsula Borough
73	Kodiak Island Borough
75	Valdez-Cordova

Southeast Region

85	Haines Borough
86	Juneau Borough
95	Ketchikan Gateway Borough
93	Prince of Wales-Outer Ketchikan
87	Sitka Borough
80	Skagway-Hoonah-Angoon
91	Wrangell-Petersburg
79	Yakutat Borough

NORTHERN REGION



NOME

Beaver Creek	34
Bessie No. 5 Dredge	34
Big Hurrah	34
Bluff	34
Brevig Mission	34
Bunker Hill Crossing	34
Cape Rodney	34
Cape York	34
Chinik	34
Council	34
Dahl	34
Davidson	34
Davidsons Landing	34
Diomed Village	34
Egavik	34
Elim	34
Gambell	34
Golovin	34
Granite Mountain	34
Haycock	34
Igloo	34
Iron Creek	34
King Island	34
Kingegan	34
Kougarok	34
Koyuk	34
Kuzitrin River	34
Little Diomed	34
Lost River	34
Mary's Igloo	34
Moses Point	34
Nome	34
North River	34
Northeast Cape	34
Norton Sound	34
Perkinsville	34
Pilgrim Springs	34
Point Spencer	34
Port Clarence	34
Saint Lawrence Island	34
Saint Michael	34
Savoonga	34
Serpentine Hot Springs	34

Shaktolik	34
Shelton	34
Shishmaref	34
Sinuk	34
Solomon	34
Stebbins	34
Sullivan Camp	34
Taylor	34
Teller	34
Teller Mission	34
Tin City	34
Ukivok	34
Unalakleet	34
Angelic	34
Wales	34
White Mountain	34
York	34

NORTH SLOPE BOROUGH

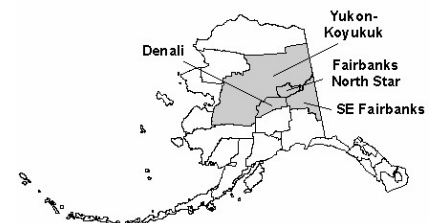
Anaktuvuk Pass	31
Atigun Camp	31
Atkasook	31
Atkasuk	31
Barrow	31
Barter Island	31
Beechey Point	31
Browerville	31
Cape Lisburne	31
Cape Thompson	31
Chandalar Camp	31
Chandler Lake	31
Chariot	31
Crazy Horse Camp	31
Davidson Mountains	31
Deadhorse	31
Franklin Bluffs Camp	31
Galbraith Camp	31
Gordon	31
Happy Valley Camp	31
Humphrey Point	31
Kaktovik	31
Kokruagarok	31
Lupine Camp	31
Meade River	31
Noatak River	31
Nuiqsut	31
Point Barrow	31
Point Hope	31
Point Lay	31
Prudhoe Bay	31
Sagwon	31
Slope Camp	31
Tigara	31
Tikikluk	31
Toolik Camp	31

Umiat	31
Wainwright	31
Wevok	31

NORTHWEST ARCTIC BOROUGH

Ambler	33
Bornite	33
Buckland	33
Candle	33
Chicago Creek	33
Deering	33
Elephant Point	33
Kalla	33
Kiana	33
Kivalina	33
Kiwalik	33
Klery Creek	33
Kobuk	33
Kotzebue	33
May Creek(NW Arctic)	33
Noatak	33
Noorvik	33
Red Dog Mine	33
Selawik	33
Shesualek	33
Shungnak	33
Shungnak Village	33
Utica	33

INTERIOR REGION



DENALI BOROUGH

Anderson	47
Browne	47
Cantwell	47
Carlo	47
Clear	47
Denali National Park	47
Diamond	47
Ferry	47
Garner	47
Glacier	47
Healy	47
Kantishna	47
Lagoon	47
Lignite	47
McKinley Park	47

Moody	47
Rex	47
Suntrana	47
Tolkat	47
Usibelli	47
Windy	47

FAIRBANKS NORTHSTAR BOROUGH

Aurora Johnston	44
Aurora Lodge	44
Badger	44
Bartlett	44
Berry	44
Big Bend	44
Big Horn	44
Birch Estates	44
Birch Lake	44
Boyd	44
Broadmoor	44
Cache	44
Chatanika	44
Chena Hot Springs	44
Chena Ridge	44
Cleary Summit	44
College	44
Curry's Corner	44
Derby Tract	44
Dome Camp	44
Eielson Air Force Base	44
Ester	44
Fairbanks	44
Fairbanks Creek	44
Farmers Loop	44
Fort Wainwright	44
Fox	44
Garden Island	44
Geist Road	44
Gilmore	44
Goldstream Creek	44
Hamilton Acres	44
Happy	44
Harding Lake	44
Island Homes	44
Lemeta-Johnston	44
Mack	44
McKinley Acres	44
Moose Creek(Fbk)	44
Murphy Dome	44
Musk Ox Subdivision	44
North Pole	44
Old Chatanika	44
Olmes	44
Pedro Dome	44
Plack	44

Rego	44
Richardson	44
Salcha	44
Salchaket	44
Saulich	44
Shanley	44
Slaterville	44
Smith Ranch	44
South Bjerremark	44
South Fairbanks	44
Sprucewood	44
Standard	44
Totem Park	44
Two Rivers	44
University	44
West Fairwest	44
Westgate	44
Westwood	44
Wilcox	44

SOUTHEAST FAIRBANKS

Big Delta	46
Boundary	46
Cathedral Bluffs	46
Charlieskin Village	46
Chicken	46
Delta Camp	46
Delta Junction	46
Donnelly	46
Dot Lake	46
Eagle	46
Eagle Village	46
Fort Greely	46
Forty Mile	46
Gardiner Creek Camp	46
Gerstle River	46
Healy Lake	46
Indian (SE Fbks)	46
Jack Wade	46
Johnson River	46
McCallum Creek	46
Montana Creek	46
Mount Deborah	46
Northway	46
Northway Village	46
O'Brien Creek	46
Scobys	46
Seatons Stop	46
Seventymile	46
Shaw Creek	46
South Fork Lodge	46
Tanacross	46
Tangle Lakes	46
Ten Mile	46

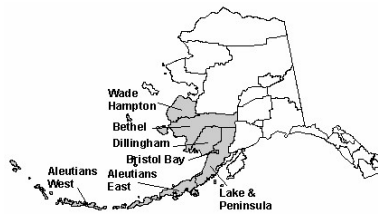
Tetlin	46
Tetlin Junction	46
Tok	46

YUKON-KOYUKUK

AGM Camp	41
Alatna	41
Allakaket	41
Anvik	41
Arctic Village	41
Baker	41
Beaver	41
Berg	41
Bettles	41
Birch Creek	41
Birches	41
Browns Court	41
Campion	41
Canyon Village	41
Caro	41
Central	41
Chalkyitsik	41
Chandalar	41
Christian	41
Circle	41
Circle Hot Springs	41
Coal Creek	41
Coldfoot Camp	41
Cripple Landing	41
Cutoff	41
Deadwood	41
Dietrich Camp	41
Dunbar	41
Eureka (Yukon-Koy)	41
Evansville	41
Farewell Landing	41
Fishhook	41
Flat	41
Folger	41
Fort Yukon	41
Galena	41
Ganes Creek	41
Grant Creek	41
Grayling	41
Hess Camp	41
Hogatza	41
Holikachuk	41
Holy Cross	41
Hughes	41
Huslia	41
Iditarod	41
Indian Mountain	41
Indian River	41
Julius	41
Kallands	41

Kaltag	41
Kokrines	41
Koyukuk	41
Lake Minchumina	41
Livengood	41
Long	41
Manley Hot Springs	41
McGrath	41
Medfra	41
Miller House	41
Minto	41
Nenana	41
Nikolai	41
Nolan	41
North Nenana	41
Nowitna River	41
Nulato	41
Old Man Camp	41
Old Rampart	41
Ophir	41
Paimiut	41
Poorman	41
Prospect Camp	41
Railroad City	41
Rampart	41
Ruby	41
Salmon	41
Shageluk	41
Sterling Landing	41
Stevens Village	41
Stuyahok	41
Sulatna Crossing	41
Takotna	41
Tanana	41
Tatalina	41
Telida	41
Tofty	41
Tolovana	41
Tolstoi	41
Utopia	41
Venetie	41
Wild Lake	41
Wiseman	41
Wood Spur	41
Woodchopper	41

SOUTHWEST REGION



ALEUTIANS EAST BOROUGH

Akutan	57
Belkofski	57
Cape Sarichef	57
Cold Bay	57
False Pass	57
Fort Randall	57
Herendeen Bay	57
Ikatan	57
King Cove	57
Morzhovoi	57
Nelson Lagoon	57
Pauloff Harbor	57
Pavlof	57
Port Moller	57
Sanak Island	57
Sand Point	57
Shumagin Islands	57
Squaw Harbor	57
Unga	57
Unimak	57

ALEUTIANS WEST

Adak	58
Amchitka Island	58
Atka	58
Attu	58
Biorka	58
Captains Bay	58
Chernofski	58
Driftwood Bay	58
Dutch Harbor	58
Fort Glenn	58
Kashega	58
Makushin	58
Navy Town	58
Nikolski	58
Pribilof Islands	58
Saint George Island	58
Saint Paul Island	58
Sand Bay	58
Sedanka Island	58
Shemya	58
Umnak	58
Umnak Island	58

Unalaska	58
Unalaska Bay	58

BETHEL

Aguikchuk	52
Akiachak	52
Akiak	52
Akolmiut	52
Akulurak	52
Aniak	52
Anogok	52
Atmautluak	52
Bethel	52
Cape Newenham	52
Cheeching	52
Chefornak	52
Chiftak	52
Chuathbaluk	52
Chufatoolik	52
Crooked Creek	52
Eek	52
Georgetown	52
Goodnews Bay	52
Hungry Village	52
Inger	52
Itulilik	52
Kalskag	52
Kashegeluk	52
Kasigluk	52
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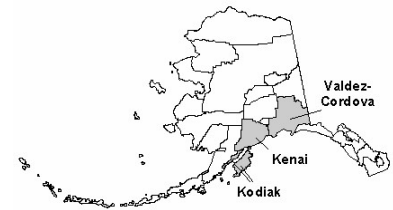
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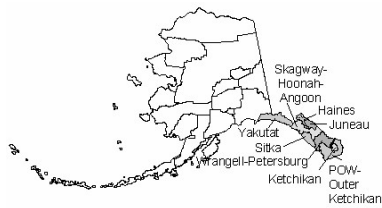
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NUMERIC LIST OF OCCUPATIONAL CODES

MANAGEMENT OCCUPATIONS		
11-1011	Chief Executives	Determine and formulate policies and provide the overall direction of private or public sector organizations. Plan, direct, or coordinate operational activities at the highest level of management.
11-1021	General and Operations Managers	Plan, direct, or coordinate the operations of public or private sector organizations. Formulate policies, manage daily operations, and plan the use of materials and human resources. First line supervisors and managers are classified with the workers they oversee.
11-1031	Legislators	Develop laws and statutes at the Federal, State, or local level. Include only elected officials.
11-2011	Advertising and Promotions Managers	Plan and direct advertising policies and programs or produce materials to create extra interest in the purchase of a product or service for a department, an entire organization, or on an account basis.
11-2021	Marketing Managers	Determine the demand for products and services offered and identify potential customers. Develop pricing strategies. Oversee product development or monitor trends that indicate the need for new products and services.
11-2022	Sales Managers	Direct the actual distribution or movement of a product or service to the customer. Coordinate sales distribution for sales representatives. Analyze sales statistics.
11-2031	Public Relations Managers	Plan and direct public relations programs for employer or client. Plan and direct activities to solicit funds for special projects and nonprofit organizations.
11-3011	Administrative Services Managers	Plan, direct, or coordinate office support services. May oversee facilities planning and maintenance and custodial operations. Exclude "Purchasing Managers" (11-3061).
11-3021	Computer and Information Systems Managers	Plan, direct, or coordinate activities in fields such as electronic data processing, information systems, systems analysis, and computer programming.
11-3031	Financial Managers	Plan, direct and coordinate, accounting, investing banking and securities and other financial activities of a branch, office or department of an establishment.
11-3041	Compensation and Benefits Managers	Plan, direct, or coordinate compensation and benefits activities. Include job analysis and position description managers.
11-3042	Training and Development Managers	Plan, direct, or coordinate the training and development activities of staff.
11-3049	Human Resources Managers, All Other	Include all Human Resources Managers not listed separately.
11-3051	Industrial Production Manager	Plan, direct, or coordinate the activities and resources for manufacturing products in accordance with specifications.
11-3061	Purchasing Managers	Plan, direct, or coordinate the activities of workers involved in purchasing materials, products, and services. Include wholesale or retail trade merchandising managers.
11-3071	Transportation, Storage, and Distribution Managers	Plan, direct, or coordinate transportation, storage, or distribution activities in accordance with governmental policies and regulations. Include logistics managers.
11-9011	Farm, Ranch, and Other Agricultural Managers	On a paid basis, manage farms, ranches, aquacultural operations, greenhouses, nurseries, timber tracts, cotton gins, packing houses and other agricultural establishments. Carry out production, financial and marketing decisions relating to management operations following guidelines from owner. May perform physical work and operate machinery.
11-9012	Farmers and Ranchers	On an ownership or rental basis, operate agricultural establishments, including aquaculture. May perform many varied tasks, including plant care, record keeping, maintenance, supervision, and/or physical work. Include operators of postharvest operations.

DETAILED DESCRIPTIONS OF OCCUPATIONS

11-9021	Construction Managers	Plan, direct, coordinate or budget activities concerned with the construction and maintenance of structures, facilities, and systems. Include general superintendents and project managers.
11-9031	Education Administrators, Preschool and Child Care Center/Program	Plan, direct, or coordinate the academic and nonacademic activities of preschool and child care centers or programs. Exclude "Preschool Teachers" (25-2011).
11-9032	Education Administrators, Elementary and Secondary School	Plan, direct, or coordinate the academic, clerical, or auxiliary activities of public or private elementary or secondary level schools.
11-9033	Education Administrators, Postsecondary	Plan, direct, or coordinate research, instruction, student administration, and other educational activities at postsecondary institutions.
11-9039	Education Administrators, All Other	Include all education administrators not listed separately.
11-9041	Engineering Managers	Plan, direct, or coordinate activities, including research and development, in architecture and engineering. Exclude "Natural Sciences Managers" (11-9121).
11-9051	Food Service Managers	Plan, direct, or coordinate activities of an organization that serves food or beverages.
11-9061	Funeral Directors	Arrange and direct funeral services. Coordinates transportation of body, interviews family, selects pallbearers, procures officials for religious rites, and provides transportation for mourners.
11-9071	Gaming Managers	Plan, organize, direct, control, or coordinate gaming operations in a casino.
11-9081	Lodging Managers	Plan, direct, or coordinate activities of lodging or other accommodations establishments. Exclude "Food Service Managers" (11-9051) of lodging establishments.
11-9111	Medical and Health Service Managers	Plan, direct, or coordinate medicine and health services in hospitals, clinics, public health agencies, or similar organizations.
11-9121	Natural Sciences Manager	Plan, direct, or coordinate activities, including research and development, in life or physical sciences, mathematics, or statistics. Exclude "Engineering Managers" (11-9041) and "Computer and Information Systems Managers" (11-3021).
11-9131	Postmasters and Mail Superintendents	Direct and coordinate operations of a U.S. post office or an assigned post office.
11-9141	Property, Real Estate, and Community Association Managers	Plan, direct, or coordinate selling, buying, leasing, or governance of commercial, industrial, or residential real estate properties. Include managers of condominium associations or land (including rights-of-way).
11-9151	Social and Community Service Managers	Plan, organize, or coordinate the activities, policies or budget of a social service program. May involve directing social workers, counselors, or probation officers.
11-9199	Managers, All Other	Include all managers not listed separately.

DETAILED DESCRIPTIONS OF OCCUPATIONS

BUSINESS AND FINANCIAL OCCUPATIONS

13-1011	Agents and Business Managers of Artists, Performers, and Athletes	Represent and promote artists, performers, and athletes to prospective employers. May handle contract negotiation and other business matters for clients.
13-1021	Purchasing Agents and Buyers, Farm Products	Purchase farm products for further processing or resale. Include Christmas tree contractors, grain brokers/buyers, market operators and tobacco buyers.
13-1022	Wholesale and Retail Buyers, Except Farm Products	Buy merchandise or commodities for resale to consumers at the wholesale or retail level, including durable and non-durable goods. Determine value and yield. May introduce new products. Include assistant buyers.
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	Purchase goods or services for the operation of an establishment, including raw or semi-finished materials for manufacturing. Include contract specialists, field contractors, price analysts, tooling coordinators, and media buyers.
13-1031	Claims Adjusters, Examiners, and Investigators	Review settled claims. Report overpayments, underpayments, and other irregularities. Confer with legal counsel on claims requiring litigation.
13-1032	Insurance Appraisers, Auto Damage	Appraise vehicle damage to determine cost of repair. Prepare cost estimates and recommendations.
13-1041	Compliance Officers, Except Agriculture, Construction, Health and Safety, and Transportation	Examine, evaluate, and investigate eligibility for or conformity with laws and regulations, and other compliance and enforcement inspection activities not classified elsewhere. Exclude "Tax Examiners, Collectors, and Revenue Agents" (13-2081) and "Financial Examiners" (13-2061).
13-1051	Cost Estimators	Prepare cost estimates to aid management in bidding on or determining price of product or service.
13-1061	Emergency Management Specialists, Disaster Planner	Coordinate disaster response or crisis management activities, provide disaster preparedness training, and prepare emergency plans and procedures for disasters or hostage situations.
13-1071	Employment, Recruitment, and Placement Specialists	Recruit and place workers.
13-1072	Compensation, Benefits, and Job Analysis Specialists	Conduct programs of compensation and benefits and job analysis. May specialize in specific areas, such as position classification and pension programs.
13-1073	Training and Development Specialists	Conduct training and development programs for employees.
13-1079	Human Resources, Training, and Labor Relations Specialists, All Other	Include all human resources, training, and labor relations specialists not listed separately.
13-1081	Logisticians	Analyze and coordinate the logistical functions of a firm or organization. Responsible for the entire life cycle of a product, including acquisition, distribution, internal allocation, delivery, and final disposal of resources.
13-1111	Management Analysts	Prepare procedures and manuals, and conduct studies to assist management in operating more efficiently and effectively. Include program analysts and management consultants. Exclude "Computer Systems Analysts" (15-1051) and "Operations Research Analysts" (15-2031).
13-1121	Meeting and Convention Planners	Coordinate activities of staff and convention personnel to arrange for group meetings and conventions.
13-1199	Business Operations Specialists, All Other	Include all business operations specialists not listed separately.
13-2011	Accountants and Auditors	Examine, analyze, and interpret accounting records for giving advice or preparing statements. Install or advise on systems of recording financial data.
13-2021	Appraisers and Assessors of Real Estate	Appraise real property to determine its fair value. May assess taxes in accordance with prescribed schedules.
13-2031	Budget Analysts	Examine budget estimates for completeness, accuracy, and conformance with procedures and regulations. Analyze budgeting and accounting reports for maintaining expenditure controls.

DETAILED DESCRIPTIONS OF OCCUPATIONS

13-2041	Credit Analysts	Determine the degree of risk involved in extending credit or lending money to individuals or firms. Prepare reports for use in decision-making.
13-2051	Financial Analysts	Conduct quantitative analyses of information affecting investment programs of public or private institutions.
13-2052	Personal Financial Advisors	Advise clients on financial plans. Assess clients' financial status and objectives to establish investment strategies.
13-2053	Insurance Underwriters	Review applications for insurance to evaluate degree of risk involved and determine acceptance of applications.
13-2061	Financial Examiners	Enforce or ensure compliance with laws and regulations governing financial and securities institutions and financial and real estate transactions.
13-2071	Loan Counselors	Provide guidance to prospective loan applicants who have problems qualifying for traditional loans.
13-2072	Loan Officers	Evaluate, authorize, or recommend approval of loans. Advise borrowers. Include mortgage loan officers and agents, collection analysts, loan servicing officers, and loan underwriters.
13-2081	Tax Examiners, Collectors, and Revenue Agents	Determine tax liability or collect taxes from individuals or firms according to prescribed laws and regulations.
13-2082	Tax Preparers	Prepare tax returns for individuals or small businesses. Does not have the background or responsibilities of a certified public accountant.
13-2099	Financial Specialists, All Other	Include all financial specialists not listed separately.

DETAILED DESCRIPTIONS OF OCCUPATIONS

COMPUTER AND MATHEMATICAL SCIENCE OCCUPATIONS

15-1011	Computer and Information Scientists, Research	Conduct research and develop solutions to problems in the field of computer hardware and software.
15-1021	Computer Programmers	Create detailed logical flow charts for coding into computer language. Develop and write computer programs. May program web sites.
15-1031	Computer Software Engineers, Applications	Develop, create, and modify computer software. Develop software solutions and design or customize software for client use. May analyze and design databases within an application area. Exclude "Computer Hardware Engineers" (17-2061).
15-1032	Computer Software Engineers, Systems Software	Research, design, develop, and test operating systems-level software, compilers, and network distribution software. Set operational specifications, formulate, and analyze software requirements. Apply principles and techniques of computer science, engineering, and mathematical analysis.
15-1041	Computer Support Specialists	Provide technical assistance concerning the use of computer hardware and software to computer system users. Exclude "Network and Computer Systems Administrators" (15-1071).
15-1051	Computer Systems Analysts	Analyze data processing problems for application to electronic data processing systems. Analyze user requirements, procedures, and problems. May analyze or recommend commercially available software. May supervise computer programmers. Exclude persons working primarily as "Engineers", "Mathematics", or "Scientist".
15-1061	Database Administrators	Coordinate changes to computer databases, and test and implement the database. May plan, coordinate, and implement security measures to safeguard computer databases.
15-1071	Network and Computer Systems Administrators	Install, configure, and support an organization's local area network (LAN), wide area network (WAN), and Internet system or a segment of a network system. Maintain network hardware and software. May supervise other network support and client server specialists and plan, coordinate, and implement network security measures. Exclude "Computer Support Specialist" (15-1041).
15-1081	Network Systems and Data Communications Analysts	Analyze, design, test, and evaluate network systems. Perform network-modeling, analysis, and planning. Research and recommend network and data communications hardware and software. Include telecommunications specialists who deal with the interfacing of computer and communications equipment. May supervise computer programmers. Include Internet web site designers.
15-1099	Computer Specialists, All Other	Include all computer specialists not listed separately.
15-2011	Actuaries	Analyze statistical data and construct probability tables to forecast risk and liability for payment of future benefits. May ascertain premium rates required and cash reserves necessary to ensure payment of future benefits.
15-2021	Mathematicians	Conduct research in fundamental mathematics or in application of mathematical techniques. Solve or direct solutions to problems by mathematical methods.
15-2031	Operations Research Analysts	Formulate and apply mathematical modeling and other optimizing methods using a computer to develop and interpret information that assists management with decision making, policy formulation, or other managerial functions. May develop related software, service, or products. May develop and supply optimal time, cost or logistics networks.
15-2041	Statisticians	Develop mathematical theory or apply statistical theory and methods to collect, organize, interpret, and summarize numerical data to provide usable information. Include mathematical statisticians.
15-2091	Mathematical Technicians	Apply standardized mathematical formulas, principles, and methodology to technological problems in engineering and physical sciences in relation to specific industrial and research objectives, processes, equipment and products.
15-2099	Mathematical Scientists, All Other	Include all mathematical scientists not listed separately.

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DETAILED DESCRIPTIONS OF OCCUPATIONS

ARCHITECTURE AND ENGINEERING OCCUPATIONS

17-1011	Architects, Except Landscape and Naval	Plan and design structures, such as private residences, office buildings, theaters, factories, and other structural property.
17-1012	Landscape Architects	Plan and design land areas for such projects as parks, airports, hospitals, schools, and commercial or residential sites.
17-1021	Cartographers and Photogrammetrists	Collect, analyze, and interpret geographic information. Research, study, and prepare maps and other spatial data. May design and evaluate algorithms, data structures, and user interfaces for Geographic Information Systems and mapping systems.
17-1022	Surveyors	Make exact measurements and determine property boundaries. Provide data relevant to the land or land features for engineering, mapmaking, mining, land evaluation, construction, and other purposes.
17-2011	Aerospace Engineers	Design, construct, and test aircraft, missiles, and spacecraft. May conduct basic and applied research in aircraft design and manufacture. May recommend improvements in testing equipment and techniques.
17-2021	Agricultural Engineers	Apply knowledge of engineering technology and biological science to agricultural problems.
17-2031	Biomedical Engineers	Apply knowledge of engineering, biology, and biomechanical principles to the design, development, and evaluation of biological and health systems and products.
17-2041	Chemical Engineers	Design chemical plant equipment and devise processes for manufacturing chemicals and products by applying principles and technology of chemistry, physics, and engineering.
17-2051	Civil Engineers	Plan, design, and oversee construction and maintenance of building structures, and facilities. Include architectural, structural, traffic, ocean, and geotechnical engineers. Exclude "Hydrologists" (19-2043).
17-2061	Computer Hardware Engineers	Research, design, develop, and test computer or computer-related equipment for commercial, industrial, military or scientific use. May supervise the manufacturing and installation of computer, or computer-related equipment and components. Exclude "Computer Software Engineers, Applications" (15-1031) and "Computer Software Engineers, System Software" (15-1032).
17-2071	Electrical Engineers	Design, develop, test, or supervise the manufacturing and installation of electrical equipment, components, or systems. Excludes "Computer Hardware Engineers" (17-2061).
17-2072	Electronics Engineers, Except Computer	Research, design, develop, and test electronic components and systems utilizing knowledge of electronic theory and materials properties. Design electronic circuits and components. Exclude "Computer Hardware Engineers" (17-2061).
17-2081	Environmental Engineers	Design, plan, or perform engineering duties in the prevention, control, and remediation of environmental health hazards.
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	Promote worksite or product safety by applying knowledge of industrial processes, mechanics, chemistry, psychology, and industrial health and safety laws. Include industrial product safety engineers.
17-2112	Industrial Engineers	Design, develop, test, and evaluate integrated systems for managing industrial production processes. Exclude "Health and Safety Engineers, Except Mining Safety Engineers and Inspectors" (17-2111).
17-2121	Marine Engineers and Naval Architects	Design, develop, and evaluate the operation of marine vessels, ship machinery, and related equipment.
17-2131	Materials Engineers	Evaluate materials and develop machinery and processes to manufacture materials for use in products that must meet specialized design and performance specifications. Develop new uses for known materials. Include metallurgists, metallurgical engineers, ceramic engineers, and welding engineers.
17-2141	Mechanical Engineers	Plan and design tools, engines, machines, and other mechanically functioning equipment. Oversee installation, operation, maintenance, and repair of equipment.

DETAILED DESCRIPTIONS OF OCCUPATIONS

17-2151	Mining and Geological Engineers, Including Mining Safety Engineers	Determine the location and plan the extraction of coal, metallic ores, nonmetallic minerals, and building materials. Conduct surveys, plan mine development, determine the profitability of deposits or mines.
17-2161	Nuclear Engineers	Conduct research on nuclear engineering problems or apply principles and theory of nuclear science to problems concerned with nuclear energy and nuclear waste disposal.
17-2171	Petroleum Engineers	Devise methods to improve oil and gas well production and determine the need for new or modified tool designs. Oversee drilling and offer technical advice.
17-2199	Engineers, All Other	Include all engineers not listed separately.
17-3011	Architectural and Civil Drafters	Prepare detailed drawings of architectural and structural features of buildings and topographical relief maps used in civil engineering projects. Utilize knowledge of building materials, engineering practices, and mathematics.
17-3012	Electrical and Electronics Drafters	Prepare wiring diagrams, circuit board assembly diagrams, and layout drawings used for manufacture, installation, and repair of electrical equipment.
17-3013	Mechanical Drafters	Prepare detailed working diagrams of machinery and mechanical devices.
17-3019	Drafters, All Other	Include all drafters not listed separately.
17-3021	Aerospace Engineering and Operations Technicians	Operate, install, calibrate, and maintain integrated computer/communications systems, instruments and equipment for air and space vehicles. May record and interpret test data.
17-3022	Civil Engineering Technicians	Plan, design, and oversee construction and maintenance of structures and facilities under the direction of civil engineering staff or physical scientists.
17-3023	Electrical and Electronic Engineering Technicians	Design, build, repair, calibrate, and modify electrical components, circuitry, controls, and machinery under the direction of engineering staff. Exclude "Broadcast Technicians" (27-4012).
17-3024	Electromechanical Technicians	Operate, test, and maintain unmanned, automated, servo-mechanical, or electromechanical equipment. May operate unmanned equipment at worksites. May assist engineers in testing and designing robotics equipment.
17-3025	Environmental Engineering Technicians	Apply theory and principles of environmental engineering to modify, test, and operate equipment and devices used in the prevention, control, and remediation of environmental pollution, including waste treatment and site remediation. May assist in the development of environmental pollution remediation devices under the direction of engineer.
17-3026	Industrial Engineering Technicians	Apply engineering theory and principles to problems of industrial layout or manufacturing production, usually under the direction of engineering staff.
17-3027	Mechanical Engineering Technicians	Modify, develop, and test machinery and equipment under direction of engineering staff or physical scientists.
17-3029	Engineering Technicians, Except Drafters, All Other	Include all engineering technicians, except drafters, not listed separately.
17-3031	Surveying and Mapping Technicians	Perform surveying and mapping duties, usually under the direction of others to obtain data. May calculate mapmaking information, create maps, and verify accuracy and completeness of topographical maps. Exclude "Surveyors" (17-1022), "Cartographers and Photogrammetrists" (17-1021) and "Geoscientists, except Hydrologists and Geographers" (19-2042).

DETAILED DESCRIPTIONS OF OCCUPATIONS

LIFE, PHYSICAL, AND SOCIAL SCIENCE OCCUPATIONS

19-1011	Animal Scientists	Conduct research in the genetics, nutrition, reproduction, growth, and development of domestic farm animals.
19-1012	Food Scientists and Technologists	Apply food science knowledge to determine the best ways to process, package, preserve, store, and distribute food. Analyze food content, discover new food sources, and research ways to process foods safely.
19-1013	Soil and Plant Scientists	Conduct research in breeding, physiology, production, yield, and management of crops and agricultural plants; or study the chemical, physical, biological, and mineralogical composition of soils as they relate to plant or crop growth.
19-1021	Biochemists and Biophysicists	Study the chemical composition and physical principles of living cells and organisms, their electrical and mechanical energy, and related phenomena. May conduct research. May determine the effects of foods, drugs, serums, hormones, and other substances on tissues and vital processes of living organisms.
19-1022	Microbiologists	Investigate the characteristics of microscopic organisms. Include medical microbiologists who study the relationship between organisms and disease or the effects of antibiotics on microorganisms.
19-1023	Zoologists and Wildlife Biologists	Study the origins, behavior, diseases, genetics, and life processes of animals and wildlife. May specialize in wildlife research and management.
19-1029	Biological Scientists, All Other	Include all biological scientists not listed separately.
19-1031	Conservation Scientists	Manage, improve, and protect natural resources to maximize their use without damaging the environment. May conduct soil surveys and develop plans. May instruct farmers, agricultural production managers, or ranchers. Exclude "Zoologists and Wildlife Biologists" (19-1023) and "Foresters" (19-1032).
19-1032	Foresters	Manage forested lands for economic, recreational, and conservation purposes. May inventory, appraise, negotiate and draw up contracts for procurement of timber. May determine how to conserve wildlife habitats and comply with environmental regulations. May devise plans for planting new trees, monitor tree growth, and determine harvesting time. Develop forest management plans for public and privately owned-forested lands.
19-1041	Epidemiologists	Investigate and describe the determinants and distribution of disease, disability, and other health outcomes and develop the means for prevention and control.
19-1042	Medical Scientists, Except Epidemiologists	Conduct research dealing with the understanding of human diseases and the improvement of human health. Engage in clinical research, production, technical writing, or related activities. Include public health specialists, pharmacologists, and medical pathologists. Exclude practitioners who provide medical or dental care or dispense drugs. Excludes "Microbiologist" (19-1022).
19-1099	Life Scientists, All Other	Include all life scientists not listed separately.
19-2011	Astronomers	Observe, research, and interpret celestial and astronomical phenomena and apply such information to practical problems.
19-2012	Physicists	Conduct research into the phases of physical phenomena, based on observation and experiments, and devise methods to apply laws and theories to industry and other fields.
19-2021	Atmospheric and Space Scientists	Investigate atmospheric phenomena and interpret meteorological data to prepare reports and forecasts for public and other uses. Include weather analysts, forecasters and meteorologists.
19-2031	Chemists	Conduct qualitative and quantitative chemical analyses or experiments in laboratories. Exclude "Geoscientists, Except Hydrologists and Geographers" (19-2042) and "Biochemists and Biophysicists" (19-1021).
19-2032	Materials Scientists	Research and study the structures and chemical properties of various natural and manmade materials. Determine ways to strengthen or combine materials or develop new materials. Include glass scientists, ceramic scientists, metallurgical scientists, and polymer scientists.

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DETAILED DESCRIPTIONS OF OCCUPATIONS

19-2041	Environmental Scientists and Specialists, Including Health	Research the identification, abatement, or elimination of pollutants or hazards that affect the environment or the health of the population. Exclude "Fish and Game Wardens"(33-3031), and "Forest and Conservation Workers" (45-4011).
19-2042	Geoscientists, Except Hydrologists and Geographers	Study the composition, structure, and other physical aspects of the earth in exploring for oil, gas, minerals, or underground water; or in waste disposal, land reclamation, or other environmental problems. Include mineralogists, crystallographers, paleontologists, stratigraphers, geodesists, and seismologists.
19-2043	Hydrologists	Research the distribution, circulation, and physical properties of underground and surface waters. Study precipitation, its rate of infiltration into the soil, movement through the earth, and its return to the ocean and atmosphere.
19-2099	Physical Scientists, All Other	Include all physical scientists not listed separately.
19-3011	Economists	Research, prepare reports, or formulate plans to aid in solution of economic problems arising from production and distribution of goods and services. May use econometric and sampling techniques. Exclude "Market Research Analysts" (19-3021).
19-3021	Market Research Analysts	Research market conditions to determine potential sales of a product or service. May gather information on competitors or use survey results to create a marketing campaign.
19-3022	Survey Researchers	Design or conduct surveys. May supervise interviewers who conduct the survey in person or over the telephone or present survey results to client. Exclude "Statisticians" (15-2041), "Economists" (19-3011) and "Market Research Analysts" (19-3021).
19-3031	Clinical, Counseling, and School Psychologists	Diagnose and treat mental disorder, learning disabilities, or cognitive, behavioral, and emotional problems using individual, child, family, and group therapies. May design and implement behavior modification programs.
19-3032	Industrial Organizational Psychologists	Apply principles of psychology to personnel, administration, management, sales, and marketing problems. Activities may include policy planning; employee screening, training and development; and organizational development and analysis. May work with management to reorganize the work setting to improve work productivity.
19-3039	Psychologists, All Other	Include all psychologists not listed separately.
19-3041	Sociologists	Study human society and social behavior. May study the behavior and interaction of groups, trace their origin and growth, and analyze the influence of group activities on individual members.
19-3051	Urban and Regional Planners	Develop comprehensive plans and programs for use of land and physical facilities of local jurisdictions.
19-3091	Anthropologists and Archeologists	Study the origin, development, and behavior of humans. May study the characteristics of existing people or earlier civilizations.
19-3092	Geographers	Study nature and use of areas of earth's surface, relating and interpreting interactions of physical and cultural phenomena. Conduct research on physical aspects of a region and on the spatial implications of human activities within a given area.
19-3093	Historians	Research, analyze, record, and interpret the past as recorded in records, photographs, interviews, diaries and other sources.
19-3094	Political Scientists	Study the origin, development, and operation of political systems. May conduct public opinion surveys; study public opinion, political decision making and ideology; or analyze governments, election results or public documents.
19-3099	Social Scientists and Related Workers, All Other	Include all social scientists and related workers not listed separately.
19-4011	Agricultural and Food Science Technicians	Work with agricultural scientists in research, production, and processing. Assist with animal breeding and nutrition work. Under supervision, conduct tests and experiments. Include technicians who assist food scientists or food technologists.
19-4021	Biological Technicians	Assist biological and medical scientists in laboratories. Set up, operate, and maintain laboratory instruments, monitor experiments, and record results. May analyze organic substances, such as blood, food, and drugs.

DETAILED DESCRIPTIONS OF OCCUPATIONS

19-4031	Chemical Technicians	Conduct chemical and physical laboratory tests to assist scientists in making qualitative and quantitative analyses of solids, liquids, and gaseous materials.
19-4041	Geological and Petroleum Technicians	Assist scientists in the use of electrical, sonic, or nuclear measuring instruments to obtain data indicating potential sources of metallic ore, gas, or petroleum. Investigate and collect information leading to the possible discovery of new oil fields.
19-4051	Nuclear Technicians	Assist scientists by performing technical tasks involving nuclear physics.
19-4061	Social Science Research Assistants	Assist social scientists in routine laboratory, survey, and other social research under the direct supervision of a social scientist. Excludes "Graduate Teaching Assistants" (25-1191) who both teach and do research.
19-4091	Environmental Science and Protection Technicians, Including Health	Perform laboratory and field tests to monitor the environment and investigate sources of pollution. Under direction of an environmental scientist or specialist, may collect samples for testing and take corrective actions as assigned.
19-4092	Forensic Science Technicians	Collect, identify, classify, and analyze physical evidence related to criminal investigations. Perform tests to determine significance to investigation. May testify as expert witnesses on evidence or crime laboratory techniques. Include specialists in ballistics, fingerprinting, handwriting, or biochemistry.
19-4093	Forest and Conservation Technicians	Compile data pertaining to the characteristics of forest tracts, under direction of foresters. Train and lead forest workers. May assist conservation scientists and provide technical assistance regarding the conservation of natural resources.
19-4099	Life, Physical, and Social Science Technicians, All Other	Include all life, physical, and social science technicians not listed separately.

DETAILED DESCRIPTIONS OF OCCUPATIONS

COMMUNITY AND SOCIAL SERVICE OCCUPATIONS

21-1011	Substance Abuse and Behavioral Disorder Counselors	Counsel and advise individuals with alcohol, tobacco, drug, or other problems, such as gambling and eating disorders. Exclude "Social Workers" (21-1029), "Psychologists" (19-3031) and "Mental Health Counselors" (21-1014).
21-1012	Educational, Vocational, and School Counselors	Counsel individuals and provide group educational and vocational guidance services.
21-1013	Marriage and Family Therapists	Diagnose and treat mental and emotional disorders within the context of marriage and family systems. Exclude "Social Workers" (21-1029) and "Psychologists" of all types.
21-1014	Mental Health Counselors	Counsel with emphasis on prevention of issues associated with mental and emotional health. Exclude "Social Workers"(21-1029), "Psychiatrists" (29-1066), and "Psychologists" of all types.
21-1015	Rehabilitation Counselors	Counsel individuals with disabling conditions to maximize their independence and employability. Coordinate activities for residents of care and treatment facilities. Assess client needs and design and implement rehabilitation programs.
21-1019	Counselors, All Other	Include all counselors not listed separately.
21-1021	Child, Family, and School Social Workers	Provide social services and assistance to improve the social and psychological functioning of children and their families and to maximize the family wellbeing and the academic functioning of children. May also advise teachers on how to deal with problem children.
21-1022	Medical and Public Health Social Workers	Provide psychosocial support needed to cope with chronic, acute, or terminal illnesses. Advise family care givers, provide patient education and counseling, and make referrals for other social services.
21-1023	Mental Health and Substance Abuse Social Workers	Assess and treat individuals with mental, emotional, or substance abuse problems. Activities may include therapy, crisis intervention, case management, client advocacy, prevention, and education.
21-1029	Social Workers, All Other	Include all social workers not listed separately.
21-1091	Health Educators	Promote, maintain, and improve health by assisting individuals and communities to adopt healthy behaviors. May administer fiscal resources for health education programs.
21-1092	Probation Officers and Correctional Treatment Specialists	Provide social services to assist in rehabilitation of law offenders.
21-1093	Social and Human Service Assistants	Assist professionals from a wide variety of fields to provide client services and support for families. May assist clients or social workers. Exclude "Rehabilitation Counselors"(21-1015), "Personal and Home Care Aides"(39-9021), "Eligibility Interviewers, Government Program" (43-4061), and "Psychiatric Technician" (29-2053).
21-1099	Community and Social Service Specialists	Include all community and social service specialists not listed separately.
21-2011	Clergy	Conduct religious worship and perform other spiritual functions associated with beliefs and practices of religious faith or denomination. Provide spiritual and moral guidance and assistance to members.
21-2021	Directors, Religious Activities and Education	Direct and coordinate activities of a denominational group to meet religious needs of students. Plan, direct, or coordinate church school programs. May provide counseling and guidance relative to marital, health, financial, and religious problems.
21-2099	Religious Workers, All Other	Include all religious workers not listed separately.

DETAILED DESCRIPTIONS OF OCCUPATIONS

LEGAL OCCUPATIONS

23-1011	Lawyers	Represent clients in criminal and civil litigation and other legal proceedings, draw up legal documents, and manage or advise clients on legal transactions.
23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	Conduct hearings on claims concerning government-related matters and prepare decisions.
23-1022	Arbitrators, Mediators, and Conciliators	Facilitate negotiation and conflict resolution through dialogue. Resolve conflicts outside of the court system by mutual consent of parties involved.
23-1023	Judges, Magistrate Judges, and Magistrates	Arbitrate, advise, adjudicate, or administer justice in a court of law in regards to criminal or civil cases. May issue marriage licenses and perform wedding ceremonies.
23-2011	Paralegals and Legal Assistants	Assist lawyers by researching legal precedent, investigating facts, or preparing legal documents.
23-2091	Court Reporters	Use verbatim methods and equipment to capture, store, retrieve, and transcribe pretrial and trial proceedings or other information. Includes stenocaptioners who provide captions of live or prerecorded broadcasts for hearing-impaired viewers.
23-2092	Law Clerks	Assist lawyers or judges by researching or preparing legal documents. May meet with clients or assist lawyers and judges in court. Exclude "Lawyers" (23-1011) and "Paralegals and Legal Assistants" (23-2011).
23-2093	Title Examiners, Abstractors, and Searchers	Search real estate records, examine titles, or summarize legal or insurance details for law firms, real estate agencies, or title insurance companies.
23-2099	Legal Support Workers, All Other	Include all legal support workers not listed separately.

EDUCATION, TRAINING, AND LIBRARY OCCUPATIONS

25-1011	Business Teachers, Postsecondary	Teach courses in business administration and management, such as finance, human resources, labor relations, marketing and operations research.
25-1021	Computer Science Teachers, Postsecondary	Teach courses in computer science. May specialize in a field of computer science, such as the design and function of computers or operations and research analysis.
25-1022	Mathematical Science Teachers, Postsecondary	Teach courses pertaining to mathematical concepts, statistics, and actuarial science and to the application of original and standardized mathematical techniques in solving specific problems and situations.
25-1031	Architecture Teachers, Postsecondary	Teach courses in architecture and architectural design.
25-1032	Engineering Teachers, Postsecondary	Teach courses pertaining to the application of physical laws and principles of engineering. Exclude "Computer Science Teachers, Postsecondary" (25-1021).
25-1041	Agricultural Sciences Teachers, Postsecondary	Teach courses in the agricultural sciences. Include teachers of agronomy, dairy sciences, poultry sciences, fisheries management, horticultural sciences, range management, and agricultural soil conservation.
25-1042	Biological Science Teachers, Postsecondary	Teach courses in biological sciences and biochemistry.
25-1043	Forestry and Conservation Science Teachers, Postsecondary	Teach courses in environmental and conservation science. Exclude "Agricultural Science Teachers" (25-1041).
25-1051	Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary	Teach courses in the physical sciences, except chemistry and physics.
25-1052	Chemistry Teachers, Postsecondary	Teach courses pertaining to the chemical and physical properties and compositional changes of substances. Work may include instruction in the methods of qualitative and quantitative chemical analysis. Exclude "Teachers of Biochemistry" (25-1042).
25-1053	Environmental Science Teachers, Postsecondary	Teach courses in environmental science.
25-1054	Physics Teachers, Postsecondary	Teach courses pertaining to the laws of matter and energy.

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DETAILED DESCRIPTIONS OF OCCUPATIONS

25-1061	Anthropology and Archeology Teachers, Postsecondary	Teach courses in anthropology or archeology.
25-1062	Area, Ethnic, and Cultural Studies Teachers, Postsecondary	Teach courses pertaining to the culture and development of an area or group.
25-1063	Economics Teachers, Postsecondary	Teach courses in economics.
25-1064	Geography Teachers, Postsecondary	Teach courses in geography.
25-1065	Political Science Teachers, Postsecondary	Teach courses in political science, international affairs, and international relations.
25-1066	Psychology Teachers, Postsecondary	Teach courses in psychology, such as child, clinical, and developmental psychology, and psychological counseling.
25-1067	Sociology Teachers, Postsecondary	Teach courses in sociology.
25-1069	Social Sciences Teachers, Postsecondary, All Other	Include all Postsecondary social sciences teachers not listed separately.
25-1071	Health Specialties Teachers, Postsecondary	Teach courses in health specialties, such as veterinary medicine, dentistry, pharmacy, therapy, laboratory and public health. Excludes "Nursing Instructors and Teachers" (25-1072).
25-1072	Nursing Instructors and Teachers, Postsecondary	Demonstrate and teach patient care in classroom and clinical units to nursing students.
25-1081	Education Teachers, Postsecondary	Teach courses pertaining to education, such as counseling, curriculum, guidance, instruction, teacher education and teaching English as a second language.
25-1082	Library Science Teachers, Postsecondary	Teach courses in library science.
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	Teach courses in criminal justice, corrections, and law enforcement administration.
25-1112	Law Teachers, Postsecondary	Teach courses in law.
25-1113	Social Work Teachers, Postsecondary	Teach courses in social work.
25-1121	Art, Drama, and Music Teachers, Postsecondary	Teach courses in drama, music, and the arts including fine and applied art.
25-1122	Communications Teachers, Postsecondary	Teach courses in communications, such as organizational communications, public relations, radio/television broadcasting, and journalism.
25-1123	English Language and Literature Teachers, Postsecondary	Teach courses in English language and literature, including linguistics and comparative literature.
25-1124	Foreign Language and Literature Teachers, Postsecondary	Teach courses in foreign languages and literature.
25-1125	History Teachers, Postsecondary	Teach courses in human history and historiography.
25-1126	Philosophy and Religion Teachers, Postsecondary	Teach courses in philosophy, religion, and theology.
25-1191	Graduate Teaching Assistants	Assist professional staff members in a college or university by performing teaching or teaching-related duties. Graduate assistants must be enrolled in a graduate school program. Graduate assistants who primarily perform nonteaching duties, such as laboratory research, should be reported in the occupational category related to the work performed.
25-1192	Home Economics Teachers, Postsecondary	Teach courses in childcare, family relations, finance, nutrition, and related subjects as pertaining to home management.
25-1193	Recreation and Fitness Studies Teachers, Postsecondary	Teach courses pertaining to recreation, leisure, and fitness studies, including exercise physiology and facilities management.

DETAILED DESCRIPTIONS OF OCCUPATIONS

25-1194	Vocational Education Teachers, Postsecondary	Teach or instruct vocational or occupational subjects at the Postsecondary level (but at less than the baccalaureate) to students who have graduated or left high school. Include correspondence school instructors; industrial, commercial and government training instructors; and adult education teachers and instructors who prepare persons to operate industrial, transportation or communications machinery and equipment. May teach in public or private schools or in a school associated with an organization whose primary business is other than education.
25-1199	Postsecondary Teachers, All Other	Include all Postsecondary teachers not listed separately.
25-2011	Preschool Teachers, Except Special Education	Instruct children (normally up to 5 years of age) in activities needed for primary school in a preschool, day care center, or other child development facility. May be required to hold State certification. Exclude "Child Care Workers" (39-9011) and "Special Education Teachers" (25-2041).
25-2012	Kindergarten Teachers, Except Special Education	Teach children from 4 to 6 years old. Promote physical, mental, and social development. May be required to hold State certification. Exclude "Special Education Teachers" (25-2041).
25-2021	Elementary School Teachers, Except Special Education	Teach basic academic, social, and other formative skills in public or private schools at the elementary level. Excludes "Special Education Teachers" (25-2041).
25-2022	Middle School Teachers, Except Special and Vocational Education	Teach one or more subjects in public or private schools at the middle, intermediate, or junior high level, as defined by applicable State laws and regulations. Excludes "Middle School Vocational Education Teachers" (25-2023) and "Special Education Teachers" (25-2042).
25-2023	Vocational Education Teachers, Middle School	Teach or instruct vocational or occupational subjects at the middle school level. Excludes "Special Education Teachers" (25-2042).
25-2031	Secondary School Teachers, Except Special and Vocational Education	Teach one or more subjects in public or private schools at the secondary level, such as English, Mathematics, or Social Studies. Excludes "Vocational Secondary Teachers" (25-2032) and "Special Education Teachers" (25-2043).
25-2032	Vocational Education Teachers, Secondary School	Teach or instruct vocational or occupational subjects at the secondary school level.
25-2041	Special Education Teachers, Preschool, Kindergarten, and Elementary School	Teach elementary and preschool school subjects to educationally and physically handicapped students.
25-2042	Special Education Teachers, Middle School	Teach middle school subjects to educationally and physically handicapped students.
25-2043	Special Education Teachers, Secondary School	Teach secondary school subjects to educationally and physically handicapped students.
25-3011	Adult Literacy, Remedial Education, and GED Teachers and Instructors	Teach or instruct out-of-school youths and adults in remedial or preparatory classes for the General Educational Development test, literacy, or English as a second language. Teaching may or may not take place in a traditional educational institution.
25-3021	Self Enrichment Education Teachers	Teach or instruct courses other than those that normally lead to an occupational objective or degree. Teaching may or may not take place in a traditional educational institution.
25-3099	Teachers and Instructors, All Other	Include all teachers and instructors not listed separately.
25-3099.01	Substitutes, Teachers and Instructors, Multilevel except postsecondary.	Teachers classified as "substitutes".
25-3099.02	Teachers and Instructors, all other Multilevel except Postsecondary.	Include all multilevel teachers and instructors not listed separately.
25-4011	Archivists	Appraise, edit, and direct safekeeping of permanent records and historically valuable documents. Participate in research activities based on archival materials.
25-4012	Curators	Administer affairs of museum and conduct research programs. Direct instructional, research, and public service activities of institution.
25-4013	Museum Technicians and Conservators	Prepare specimens for museum collection and exhibits. May restore documents or install, arrange, and exhibit materials.

DETAILED DESCRIPTIONS OF OCCUPATIONS

25-4021	Librarians	Administer libraries and perform related library services in a variety of settings.
25-4031	Library Technicians	Assist librarians by helping readers. Include bookmobile or mobile library drivers.
25-9011	Audiovisual Collections Specialists	Prepare, plan, and operate audiovisual teaching aids for use in education. May record, catalogue, and file audiovisual materials.
25-9021	Farm and Home Management Advisors	Advise, instruct, and assist individuals and families engaged in agriculture, agricultural-related processes, or home economics activities. Include county agricultural agents, feed and farm management advisers, home economists, and extension service advisers.
25-9031	Instructional Coordinators	Develop instructional material, coordinate educational content, and provide guidelines to educators and instructors for developing curricula and conducting courses. Include educational consultants and specialists, and instructional material directors.
25-9041	Teacher Assistants	Perform duties that are instructional in nature or deliver direct services to students or parents. Serve in a position for which a teacher or another professional has ultimate responsibility for the design and implementation of educational programs and services.
25-9041.01	Special Education Teacher Assistants	Perform duties that are instructional in nature and deliver direct services to educationally and physically handicapped students or parents. Does not have ultimate responsibility for the educational programs and services.
25-9099	Education, Training, and Library Workers, All Other	Include all education, training, and library workers not listed separately.

DETAILED DESCRIPTIONS OF OCCUPATIONS

ARTS, DESIGN, ENTERTAINMENT, SPORTS, AND MEDIA OCCUPATIONS

27-1011	Art Directors	Formulate design concepts and presentation approaches, and direct workers engaged in artwork, layout design, and copy writing for visual communications media.
27-1012	Craft Artists, Taxidermist	Create or reproduce handmade objects for sale and exhibition using a variety of techniques.
27-1013	Fine Artists, Including Painters, Sculptors, and Illustrators	Create original artwork using any of a wide variety of mediums and techniques, such as painting and sculpture.
27-1014	Multimedia Artists and Animators	Create visual images using electronic tools and media for use in products or creations.
27-1019	Artists and Related Workers, All Other	Include all artists and related workers not listed separately.
27-1021	Commercial and Industrial Designers	Develop and design manufactured products. Combine artistic talent with research on product use, marketing, and materials to create the most functional and appealing product design.
27-1022	Fashion Designers	Design clothing and accessories. May develop the line of color and kinds of materials.
27-1023	Floral Designers	Design, cut, and arrange live, dried, or artificial flowers and foliage.
27-1024	Graphic Designers	Design or create graphics to meet a client's specific commercial or promotional needs. May use a variety of mediums.
27-1025	Interior Designers	Plan, design, and furnish interiors of buildings. May specialize in a particular field, style, or phase of interior design.
27-1026	Merchandise Displayers and Window Trimmers	Plan and erect commercial displays in stores and at trade shows.
27-1027	Set and Exhibit Designers	Design special exhibits and movie, television, and theater sets.
27-1029	Designers, All Other	Include all designers not listed separately.
27-2011	Actors	Play parts for entertainment, information, or instruction. Interpret role to entertain or inform audience. May dance and sing.
27-2012	Producers and Directors	Produce or direct productions for entertainment, information, or instruction. Responsible for creative decisions, such as interpretation of script, choice of guests, set design, sound, special effects, and choreography.
27-2021	Athletes and Sports Competitors	Compete in athletic events.
27-2022	Coaches and Scouts	Instruct or coach groups or individuals in the fundamentals of sports. Demonstrate techniques and methods of participation. May evaluate athletes' strengths and weaknesses as possible recruits or to prepare them for competition. Those required to hold teaching degrees should be reported in the appropriate teaching category. Exclude "Athletic Trainers" (29-9091).
27-2023	Umpires, Referees, and Other Sports Officials	Officiate at competitive athletic or sporting events. Include all sporting officials, referees, and competition judges.
27-2031	Dancers	Perform dances. May also sing or act.
27-2032	Choreographers	Create and teach dance. May direct and stage presentations.
27-2041	Music Directors and Composers	Conduct, direct, plan, and lead instrumental or vocal performances by musical groups. Include arrangers, composers, choral directors, and orchestrators.
27-2042	Musicians and Singers	Play musical instruments or entertain by singing songs. Exclude "Dancers" (27-2031).
27-2099	Entertainers and Performers, Sports and Related Workers, All Other	Include all entertainers and performers, sports and related workers not listed separately.
27-3011	Radio and Television Announcers	Talk on radio or television. May interview guests, act as master of ceremonies, or announce song title and artist.
27-3012	Public Address System and Other Announcers	Make announcements over loud speaker at sporting or other public events. May act as master of ceremonies or disc jockey at weddings, parties, clubs, or other gathering places.
27-3021	Broadcast News Analysts	Analyze, interpret, and broadcast news received from various sources.

DETAILED DESCRIPTIONS OF OCCUPATIONS

27-3022	Reporters and Correspondents	Collect and analyze facts about newsworthy events by interview, investigation, or observation. Report and write stories. Exclude "Broadcast News Analysts" (27-2021).
27-3031	Public Relations Specialists	Engage in promoting or creating good will through various communications media. May prepare and arrange displays, and make speeches.
27-3041	Editors	Perform variety of editorial duties in preparation for final publication. Include technical editors.
27-3042	Technical Writers	Write technical materials. May assist in layout work.
27-3043	Writers and Authors	Originate and prepare written material. Exclude "Public Relations Specialists" (27-3031) and "Technical Writers" (27-3042).
27-3091	Interpreters and Translators	Translate or interpret written, oral or sign language text into another language for others.
27-3099	Media and Communication Workers, All Other	Include all media and communication workers not listed separately.
27-4011	Audio and Video Equipment Technicians	Set up and/or operate audio and video equipment and related electronic equipment. May also set up and operate lighting systems. Exclude "Sound Engineering Technicians" (27-4014).
27-4012	Broadcast Technicians	Set up, operate, and maintain the electronic equipment used to transmit radio and television programs. Control audio equipment during radio and television broadcasts. Operate radio transmitter.
27-4013	Radio Operators	Receive and transmit communications using radiotelegraph or radiotelephone equipment in accordance with government regulations. May repair equipment.
27-4014	Sound Engineering Technicians	Operate machines and equipment to record, synchronize, mix, or reproduce music, voices, or sound effects.
27-4021	Photographers	Photograph persons, subjects, merchandise, or other commercial products. May develop negatives and produce finished prints. Include scientific photographers, aerial photographers, and photojournalists.
27-4031	Camera Operators, Television, Video, and Motion Picture	Operate television, video, or motion picture camera to photograph images or scenes for various purposes.
27-4032	Film and Video Editors	Edit motion picture soundtracks, film, and video.
27-4099	Media and Communication Equipment Workers, All Other	Include all media and communication equipment workers not listed separately.

DETAILED DESCRIPTIONS OF OCCUPATIONS

HEALTHCARE PRACTITIONER AND TECHNICAL OCCUPATIONS

29-1011	Chiropractors	Examine patients. Adjust and/or manipulate spinal column and other articulations of the body to correct abnormalities of the human body believed to be caused by interference with the nervous system.
29-1021	Dentists, General	Diagnose and treat diseases, injuries, and malformations of teeth and gums and related oral structures. May treat diseases of nerve, pulp, and other dental tissues affecting vitality of teeth. Exclude "Prosthodontists" (29-1024), "Orthodontists", (29-1023) "Oral and Maxillofacial Surgeons" (29-1022) and "Dentists, all other specialists" (29-1029).
29-1022	Oral and Maxillofacial Surgeons	Perform surgery on mouth, jaws, and related head and neck structure.
29-1023	Orthodontists	Examine, diagnose, and treat dental malocclusions and oral cavity anomalies. Design and fabricate dental appliances.
29-1024	Prosthodontists	Construct oral prostheses.
29-1029	Dentists, All Other	Include all dentists not listed separately.
29-1031	Dietitians and Nutritionists	Plan and conduct food service or nutritional programs to assist in the promotion of health and control of disease. May supervise activities, counsel individuals, or conduct nutritional research.
29-1041	Optometrists	Examine, diagnose, manage, and treat conditions and diseases of the human eye and visual system. May prescribe therapeutic drugs to treat specific eye conditions.
29-1051	Pharmacists	Dispense drugs prescribed by physicians and other health practitioners and provide information to patients about medications and their use. May advise physicians and other health practitioners about medications.
29-1061	Anesthesiologists	Administer anesthetics during surgery or other medical procedures.
29-1062	Family and General Practitioners	Diagnose, treat, and help prevent diseases and injuries that commonly occur in the general population.
29-1063	Physicians, Internists, General	Diagnose and provide nonsurgical treatment of diseases and injuries of internal organ systems. Specialists, such as cardiologists and gastroenterologists, are classified as "Physicians and Surgeons, All Other" (29-1069).
29-1064	Obstetricians and Gynecologists	Diagnose, treat, and help prevent diseases of women, especially those affecting the reproductive system and the process of childbirth.
29-1065	Pediatricians, General	Diagnose, treat, and help prevent children's diseases and injuries.
29-1066	Psychiatrists	Diagnose, treat, and help prevent disorders of the mind.
29-1067	Surgeons	Treat diseases, injuries, and deformities by invasive methods.
29-1069	Physicians and Surgeons, All Other	Include all physicians and surgeons not listed separately.
29-1071	Physician Assistants	Provide healthcare services typically performed by a physician, under the supervision of a physician. May prescribe medication. Exclude "Emergency Medical Technicians and Paramedics" (29-2041), "Medical Assistants" (31-9092), and "Registered Nurses" (29-1111).
29-1081	Podiatrists	Diagnose and treat diseases and deformities of the human foot.
29-1111	Registered Nurses	Assess patient health problems and needs, develop and implement nursing care plans, and maintain medical records. Administer nursing care. May advise patients or provide case management. Licensing or registration required. Include advance practice nurses such as nurse practitioners, clinical nurse specialists, certified nurse midwives, and certified registered nurse anesthetists.
29-1121	Audiologists	Assess and treat persons with hearing and related disorders. May perform research related to hearing problems.
29-1122	Occupational Therapists	Assess, plan, organize, and participate in rehabilitative programs that help restore vocational, homemaking, and daily living skills, as well as general independence, to disabled persons.
29-1123	Physical Therapists	Assess, plan, organize, and participate in rehabilitative programs that improve mobility, relieve pain, increase strength, and decrease or prevent deformity of patients suffering from disease or injury.

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DETAILED DESCRIPTIONS OF OCCUPATIONS

29-1124	Radiation Therapists	Provide radiation therapy to patients as prescribed by a radiologist according to established practices and standards. May assist in dosimetry procedures and tumor localization.
29-1125	Recreational Therapists	Plan, direct, or coordinate medically-approved recreation programs for patients in hospitals, nursing homes, or other institutions.
29-1126	Respiratory Therapists	Assess, treat, and care for patients with breathing disorders.
29-1127	Speech Language Pathologists	Assess and treat persons with speech, language, voice, and fluency disorders. May perform research related to speech and language problems.
29-1129	Therapists, All Other	Include all therapists not listed separately.
29-1131	Veterinarians	Diagnose and treat diseases and dysfunctions of animals. May engage in a particular function, such as research and development, consultation, administration, technical writing, sale or production of commercial products, or rendering of technical services to commercial firms or other organizations. Include veterinarians who inspect livestock.
29-1199	Health Diagnosing and Treating Practitioners, All Other	Include all health diagnosing and treating practitioners not listed separately.
29-2011	Medical and Clinical Laboratory Technologists	Perform complex medical laboratory tests for diagnosis, treatment, and prevention of disease. May train or supervise staff.
29-2012	Medical and Clinical Laboratory Technicians	Perform routine medical laboratory tests for the diagnosis, treatment, and prevention of disease. May work under the supervision of a medical technologist.
29-2021	Dental Hygienists	Clean teeth and examine oral areas, head, and neck for signs of oral disease. May educate patients on oral hygiene, take and develop X-rays, or apply fluoride or sealants.
29-2031	Cardiovascular Technologists and Technicians	Conduct tests on pulmonary or cardiovascular systems of patients for diagnostic purposes. Include vascular technologists.
29-2032	Diagnostic Medical Sonographers	Produce ultrasonic recordings of internal organs for use by physicians.
29-2033	Nuclear Medicine Technologists	Prepare, administer, and measure radioactive isotopes. Prepare stock solutions of radioactive materials and calculate doses. Subject patients to radiation. Execute studies following standard laboratory techniques.
29-2034	Radiologic Technologists and Technicians	Take X-rays and CAT scans or administer nonradioactive materials into patient's blood stream for diagnostic purposes. Include workers whose primary duties are to demonstrate portions of the human body on X-ray film or fluoroscopic screen or who specialize in computed tomography and magnetic resonance.
29-2041	Emergency Medical Technicians and Paramedics	Assess injuries, administer emergency medical care, and extricate trapped individuals. Transport injured or sick persons to medical facilities.
29-2051	Dietetic Technicians	Assist dietitians in the provision of food service and nutritional programs.
29-2052	Pharmacy Technicians	Prepare medications under the direction of a pharmacist.
29-2053	Psychiatric Technicians	Care for mentally impaired or emotionally disturbed individuals, following physician instructions and hospital procedures. May participate in rehabilitation and treatment programs, help with personal hygiene, and administer oral medications and hypodermic injections.
29-2054	Respiratory Therapy Technicians	Provide specific, well defined respiratory care procedures under the direction of respiratory therapists and physicians.
29-2055	Surgical Technologists	Assist in surgical operations, under the supervision of surgeons, registered nurses, or other surgical personnel.
29-2056	Veterinary Technologists and Technicians	Perform medical tests, prepare vaccines and serums, prepare tissue samples, take blood samples, and execute laboratory tests in the treatment and care of animals. Clean and sterilize instruments and materials and maintain equipment and machines.
29-2061	Licensed Practical and Licensed Vocational Nurses	Care for ill, injured, convalescent, or disabled persons in various health care facilities or homes. May work under the supervision of a registered nurse.
29-2071	Medical Records and Health Information Technicians	Compile, process, report, and maintain medical records of hospital and clinic patients for health requirements and standards.

DETAILED DESCRIPTIONS OF OCCUPATIONS

29-2081	Opticians, Dispensing	Design, measure, fit, and adapt eyeglass lenses and frames for client. Assist client with selecting frames. Measure customer for size. Prepare work order for optical laboratory. Verify exactness of finished lens spectacles. Adjust frame and lens position to fit client. Include contact lens opticians.
29-2091	Orthotists and Prosthetists	Assist patients with partial or total absence of limb by fitting and preparing orthopedic braces or prostheses.
29-2099	Health Technologists and Technicians, All Other	Include all health technologists and technicians not listed separately.
29-9011	Occupational Health and Safety Specialists	Review, evaluate, and analyze work environments and design programs and procedures to control, eliminate, and prevent disease or injury. May conduct inspections and enforce adherence to laws and regulations. May be employed in the public or private sector. Include environmental protection officers.
29-9012	Occupational Health and Safety Technicians	Collect data on work environments for analysis by occupational health and safety specialists. Implement and conduct evaluation of programs designed to limit risks to workers.
29-9091	Athletic Trainers	Evaluate, advise, and treat athletes to assist recovery from injury, avoid injury, or maintain peak physical fitness.
29-9099	Healthcare Practitioners and Technical Workers, All Other	Include all healthcare practitioners and technical workers not listed separately.

HEALTHCARE SUPPORT OCCUPATIONS

31-1011	Home Health Aides	Provide routine, personal healthcare to persons in the home of patients or in a residential care facility.
31-1012	Nursing Aides, Orderlies, and Attendants	Provide basic patient care under direction of nursing staff. Exclude "Home Health Aides"(31-1011) and "Psychiatric Aides" (31-1013).
31-1013	Psychiatric Aides	Assist mentally impaired or emotionally disturbed patients, working under direction of nursing and medical staff.
31-2011	Occupational Therapist Assistants	Assist occupational therapists in providing treatments and procedures. May assist in development of treatment plans. Generally requires formal training.
31-2012	Occupational Therapist Aides	Under close supervision of an occupational therapist or occupational therapy assistant, perform only delegated, selected, or routine tasks in specific situations.
31-2021	Physical Therapist Assistants	Assist physical therapists in providing physical therapy treatments and procedures. May assist in development of treatment plans. Generally requires formal training.
31-2022	Physical Therapist Aides	Under close supervision of a physical therapist or physical therapy assistant, perform only delegated, selected, or routine tasks in specific situations.
31-9011	Massage Therapists	Massage customers for hygienic or remedial purposes.
31-9091	Dental Assistants	Assist dentist, set up patient and equipment, and keep records.
31-9092	Medical Assistants	Perform administrative and certain clinical duties under the direction of physician. Exclude "Physician Assistants" (29-1071).
31-9093	Medical Equipment Preparers	Prepare, sterilize, install, or clean laboratory or healthcare equipment. May perform routine laboratory tasks and operate or inspect equipment.
31-9094	Medical Transcriptionists	Use transcribing machines dictating a variety of medical reports. Transcribe and edit dictated reports and translate medical jargon and abbreviations.
31-9095	Pharmacy Aides	Record drugs delivered to the pharmacy, store incoming merchandise, and inform the supervisor of stock needs. May operate cash register and accept prescriptions for filling.
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	Feed, water, and examine pets and other nonfarm animals for signs of illness, disease, or injury in laboratories and animal hospitals and clinics. Clean and disinfect cages and work areas, and sterilize equipment. May provide routine postoperative care, administer medication, or prepare samples for laboratory examination under the supervision of others. Exclude "Non-Farm Animal Caretakers" (39-2021).
31-9099	Healthcare Support Workers, All Other	Include all healthcare support workers not listed separately.

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DETAILED DESCRIPTIONS OF OCCUPATIONS

PROTECTIVE SERVICE OCCUPATIONS

33-1011	Correctional Officers, Supervisors First Line /Managers	Supervise and coordinate activities of correctional officers and jailers.
33-1012	Police and Detectives, Supervisors/Managers	Supervise and coordinate activities of members of police force.
33-1021	Fire Fighting and Prevention Workers, Supervisors/Managers	Supervise and coordinate activities of workers engaged in fire fighting and fire prevention and control.
33-1099	Protective Service Workers, All Other Supervisors/Managers,	Include all protective service supervisors not listed separately above.
33-2011	Fire Fighters	Control and extinguish fires or respond to emergency situations where life, property, or the environment is at risk. Duties may include fire prevention, search and rescue, and disaster management.
33-2021	Fire Inspectors and Investigators	Inspect buildings to detect fire hazards and enforce local ordinances and State laws. Investigate and gather facts to determine cause of fires and explosions.
33-2022	Forest Fire Inspectors and Prevention Specialists	Enforce fire regulations and inspect for forest fire hazards. Report forest fires and weather conditions.
33-3011	Bailiffs	Maintain order in courts of law.
33-3012	Correctional Officers and Jailers	Guard inmates in penal or rehabilitative institutions. May guard prisoners in transit. Include deputy sheriffs and police who spend the majority of their time guarding prisoners in correctional institutions.
33-3021	Detectives and Criminal Investigators	Conduct investigations related to suspected violations of laws to prevent or solve crimes. Exclude "Private Detectives and Investigators" (33-9021).
33-3031	Fish and Game Wardens	Patrol assigned area to prevent fish and game law violations. Investigate reports of damage to crops or property by wildlife. Compile biological data.
33-3041	Parking Enforcement Workers	Patrol assigned area to issue tickets to overtime parking violators and illegally parked vehicles.
33-3051	Police and Sheriff's Patrol Officers	Maintain order, enforce laws and ordinances, and protect life and property in an assigned patrol district.
33-3052	Transit and Railroad Police	Protect and police railroad and transit property, employees, or passengers.
33-9011	Animal Control Workers	Handle animals for the purpose of investigations of mistreatment, or control of abandoned, dangerous, or unattended animals.
33-9021	Private Detectives and Investigators	Detect occurrences of unlawful acts or infractions of rules in private establishment, or seek, examine, and compile information for client.
33-9031	Gaming Surveillance Officers and Gaming Investigators	Act as oversight and security agent for management and customers. Usually required to provide verbal and written reports of all violations and suspicious behavior to supervisor.
33-9032	Security Guards	Guard, patrol, or monitor premises to prevent theft, violence, or infractions of rules.
33-9091	Crossing Guards	Guide or control vehicular or pedestrian traffic.
33-9092	Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers	Monitor recreational areas to provide assistance and protection to participants.
33-9099	Protective Service Workers, All Other	Include all protective service workers not listed separately.

DETAILED DESCRIPTIONS OF OCCUPATIONS

FOOD PREPARATION AND SERVING RELATED OCCUPATIONS

35-1011	Chefs and Head Cooks	Direct the preparation, seasoning, and cooking of foods. May plan and price menu items, order supplies, and keep records and accounts. May participate in cooking.
35-1012	Food Preparation and Serving Workers, Supervisors First Line /Managers	Supervise workers engaged in preparing and serving food.
35-2011	Cooks, Fast Food	Prepare and cook food in a fast food restaurant with a limited menu.
35-2012	Cooks, Institution and Cafeteria	Prepare and cook large quantities of food for institutions or cafeterias, such as schools or hospitals.
35-2013	Cooks, Private Household	Prepare meals in private homes.
35-2014	Cooks, Restaurant	Prepare, season, and cook food in restaurants. May order supplies, keep records and accounts, price items on menu, or plan menu.
35-2015	Cooks, Short Order	Prepare and cook to order a variety of foods that require only a short preparation time. May take orders from customers and serve patrons at counters or tables. Exclude "Fast Food Cooks" (35-2011).
35-2019	Cooks, All Other	Include all cooks not listed separately.
35-2021	Food Preparation Workers	Perform a variety of food preparation duties other than cooking.
35-3011	Bartenders	Mix and serve alcoholic drinks to patrons, directly or through waitstaff.
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	Perform duties that combine both food preparation and food service.
35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	Serve food to diners at counter or from a steam table. Counter attendants who also wait tables are classified with "Waiters and Waitresses" (35-3031).
35-3031	Waiters and Waitresses	Take orders and serve food and beverages to patrons at tables in dining establishment. Exclude "Counter Attendants, Cafeteria, Food Concession, and Coffee Shop" (35-3022).
35-3041	Food Servers, Non-restaurant	Serve food to patrons outside of a restaurant environment. Exclude "Door-to-Door Sales Workers, News and Street Vendors, and Related Workers" (41-9091) and "Counter Attendants, Cafeteria, Food Concession, and Coffee Shop" (35-3022).
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	Facilitate food service by keeping tables ready for use. Serve water, butter, and coffee to patrons.
35-9021	Dishwashers	Clean dishes, kitchen, food preparation equipment, or utensils.
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	Welcome patrons, seat them at tables or in lounge, and help ensure quality of facilities and service.
35-9099	Food Preparation and Serving Related Workers, All Other	Include all food preparation and serving related workers not listed separately.

DETAILED DESCRIPTIONS OF OCCUPATIONS

BUILDING AND GROUNDS CLEANING AND MAINTENANCE OCCUPATIONS

37-1011	Housekeeping and Janitorial Workers Supervisors / First Line Managers	Supervise work activities of cleaning personnel.
37-1012	Landscaping, Lawn Service, and Groundskeeping Workers Supervisors / First Line Managers	Plan, organize, direct, or coordinate activities of workers engaged in landscaping or groundskeeping activities. May also coordinate activities of workers engaged in following a landscape design plan.
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	Keep buildings in clean and orderly condition. Perform heavy cleaning duties. Duties may include tending furnace and boiler, performing routine maintenance activities, notifying management of need for repairs, and clearing snow or debris from sidewalk.
37-2012	Maids and Housekeeping Cleaners	Perform any combination of light cleaning duties to maintain private households or commercial establishments, such as hotels, restaurants, and hospitals, in a clean and orderly manner. Duties include making beds, replenishing linens, cleaning rooms and halls, and vacuuming.
37-2019	Building Cleaning Workers, All Other	Include all building cleaning workers not listed separately.
37-2021	Pest Control Workers	Spray or release chemical solutions or toxic gases and set traps to kill pests and vermin that infest buildings and surrounding areas.
37-3011	Landscaping and Groundskeeping Workers	Landscape or maintain grounds of property using hand or power tools or equipment. Workers typically perform a variety of landscaping tasks. Exclude "Farmworkers and Laborers, Crop, Nursery, and Greenhouse" (45-2092).
37-3012	Pesticide Handlers, Sprayers, and Applicators, Vegetation	Mix or apply pesticides, herbicides, fungicides, or insecticides on trees, shrubs, lawns, or botanical crops. Usually requires specific training and State or Federal certification. Excluded workers who operate aviation equipment to dust or spray crops are classified with "Commercial Pilots" (53-2012).
37-3013	Tree Trimmers and Pruners	Cut away dead or excess branches from trees or shrubs. Prune or treat trees or shrubs. May use hand tools or power tools. May fill cavities in trees to promote healing and prevent deterioration. Exclude "Pesticide Handlers, Sprayers, and Applicators, Vegetation" (37-3012) and "Landscaping and Groundskeeping Workers" (37-3011).
37-3019	Grounds Maintenance Workers, All Other	Include all grounds maintenance workers not listed separately.

PERSONAL CARE AND SERVICE OCCUPATIONS

39-1011	Gaming Supervisors	Supervise gaming operations and personnel in an assigned area. Exclude "Slot Key Persons" (39-1012).
39-1012	Slot Key Persons	Coordinate/supervise functions of slot department workers to provide service to patrons. Make minor repairs or adjustments to slot machines.
39-1021	Personal Service Workers, Supervisors/Firstline Managers	Supervise and coordinate activities of personal service workers, such as supervisors of flight attendants, hairdressers, or caddies.
39-2011	Animal Trainers	Train animals for riding, harness, security, performance, or obedience, competition, or assisting persons with disabilities. May train animals to carry pack loads or work as part of pack team.
39-2021	Nonfarm Animal Caretakers	Care for pets and other nonfarm animals in settings such as kennels, animal shelters, zoos, circuses, and aquariums. Exclude "Veterinary Assistants and Laboratory Animal Caretakers" (31-9096).
39-3011	Gaming Dealers	Operate games of chance by operating gaming equipment at a table.
39-3012	Gaming and Sports Book Writers and Runners	Assist in the operation of games such as keno and bingo. May announce numbers, pick up tickets, collect bets, and handle cash wagers. Include bingo callers and pull-tab operators.
39-3019	Gaming Service Workers, All Other	Include all Gaming Service Workers not listed separately.

DETAILED DESCRIPTIONS OF OCCUPATIONS

39-3021	Motion Picture Projectionists	Set up and operate motion picture projection and related sound reproduction equipment.
39-3031	Ushers, Lobby Attendants, and Ticket Takers	Assist patrons at entertainment events by collecting admission tickets, and assisting in finding seats and other facilities.
39-3091	Amusement and Recreation Attendants	Perform variety of attending duties at amusement or recreation facility. May schedule use of facilities, maintain and provide equipment, or operate amusement concessions and rides.
39-3092	Costume Attendants	Select, fit, and take care of costumes for cast members, and aid entertainers.
39-3093	Locker Room, Coatroom, and Dressing Room Attendants	Provide personal items to patrons or customers.
39-3099	Entertainment Attendants and Related Workers, All Other	Include all entertainment attendants and related workers not listed separately.
39-4011	Embalmers	Prepare bodies for interment in conformity with legal requirements.
39-4021	Funeral Attendants	Perform variety of tasks during funeral.
39-5011	Barbers	Provide barbering services.
39-5012	Hairdressers, Hairstylists, and Cosmetologists	Provide beauty, nail, and skin care services.
39-5091	Makeup Artists, Theatrical and Performance	Apply makeup to performers to reflect period, setting, and situation of their role.
39-5092	Manicurists and Pedicurists	Clean and shape customers' fingernails and toenails. May polish or decorate nails.
39-5093	Shampooers	Shampoo and rinse customers' hair.
39-5094	Skin Care Specialists	Provide skin care treatments to face and body to enhance an individual's appearance.
39-6011	Baggage Porters and Bellhops	Handle baggage for travelers at transportation terminals or for guests at hotels or similar establishments.
39-6012	Concierges	Assist patrons at hotel, apartment or office building with personal services.
39-6021	Tour Guides and Escorts	Escort individuals or groups on sightseeing tours or through places of interest.
39-6022	Travel Guides	Plan, organize, and conduct long distance cruises, tours, and expeditions for individuals and groups.
39-6031	Flight Attendants	Provide personal services to ensure the safety and comfort of airline passengers during flight.
39-6032	Transportation Attendants, Except Flight Attendants and Baggage Porters	Provide services to ensure the safety and comfort of passengers aboard ships, buses, trains, or within the station or terminal.
39-9011	Child Care Workers	Attend to children at schools, businesses, private households, and child care institutions. Exclude "Preschool Teachers" (25-2011) and "Teacher Assistants" (25-9041).
39-9021	Personal and Home Care Aides	Assist elderly or disabled adults with daily living activities at the person's home or in a daytime nonresidential facility. May provide advice on such things as nutrition, cleanliness, and household utilities.
39-9031	Fitness Trainers and Aerobics Instructors	Instruct or coach groups or individuals in exercise activities and the fundamentals of sports. Those required to hold teaching degrees should be reported in the appropriate teaching category. Exclude "Athletic Trainers" (29-9091).
39-9032	Recreation Workers	Conduct recreation activities with groups in public, private, or volunteer agencies or recreation facilities, taking into account the needs and interests of individual members.
39-9041	Residential Advisors	Coordinate activities for residents of boarding schools, college fraternities or sororities, college dormitories, or similar establishments. Order supplies and determine need for maintenance, repairs, and furnishings. May maintain household records and assign rooms. May refer residents to counseling resources if needed.
39-9099	Personal Care and Service Workers, All Other	Include all personal care and service workers not listed separately.

DETAILED DESCRIPTIONS OF OCCUPATIONS

SALES AND RELATED OCCUPATIONS

41-1011	Retail Sales Workers, Supervisors/ First Line Managers	Directly supervise sales workers in a retail establishment or department. Duties may include management functions, such as purchasing, budgeting, accounting, and personnel work, in addition to supervisory duties.
41-1012	NonRetail Sales Workers. Supervisors/First Line Managers	Directly supervise and coordinate activities of sales workers other than retail sales. May perform duties, such as budgeting, accounting, and personnel work, in addition to supervisory duties.
41-2011	Cashiers	Receive and disburse money in establishments other than financial institutions. Use electronic scanners, cash registers, or related equipment. Process credit or debit card transactions and validate checks.
41-2012	Gaming Change Persons and Booth Cashiers	Exchange coins and tokens for patrons' money. May issue payoffs. May furnish change to coworkers or count and audit money in drawers.
41-2021	Counter and Rental Clerks	Receive orders for repairs, rentals, and services. May describe available options, compute cost, and accept payment.
41-2022	Parts Salespersons	Sell spare and replacement parts and equipment in repair shop or parts store.
41-2031	Retail Salespersons	Sell merchandise, such as furniture, motor vehicles, appliances or apparel in a retail establishment. Exclude "Cashiers" (41-2011).
41-3011	Advertising Sales Agents	Sell or solicit advertising space or time. May persuade retailers to use sales promotion display items or lease outdoor advertising.
41-3021	Insurance Sales Agents	Sell types of insurance. May refer clients to independent brokers, work as independent broker, or be employed by an insurance company.
41-3031	Securities, Commodities, and Financial Services Sales Agents	Buy and sell securities. Provide financial services. May advise securities customers.
41-3041	Travel Agents	Plan and sell transportation and accommodations for travel agency customers.
41-3099	Sales Representatives, Services, All Other	Include all services sales representatives not listed separately.
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	Sell goods for wholesalers or manufacturers where technical or scientific knowledge is required. At least 2 years of postsecondary education is normal.
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	Sell goods for wholesalers or manufacturers to businesses or groups of individuals. Work requires substantial knowledge of items sold.
41-9011	Demonstrators and Product Promoters	Demonstrate merchandise to create public interest in buying the product.
41-9012	Models	Model apparel to prospective buyers. May pose for advertising photos or as subject for paintings, sculptures, and other types of artistic expression.
41-9021	Real Estate Brokers	Operate real estate office and oversee real estate transactions. May sell real estate, rent properties and arrange loans.
41-9022	Real Estate Sales Agents	Rent, buy, or sell property for clients. Include agents who represent buyer.
41-9031	Sales Engineers	Sell business goods or services, the selling of which requires a technical background equivalent to a baccalaureate degree in engineering. Exclude "Engineers" (17-2051) whose primary function is not marketing or sales.
41-9041	Telemarketers	Solicit orders for goods or services over the telephone.
41-9091	Door-To-Door Sales Workers, News and Street Vendors, and Related Workers	Sell goods or services door-to-door or on the street.
41-9099	Sales and Related Workers, All Other	Include all sales and related workers not listed separately.

DETAILED DESCRIPTIONS OF OCCUPATIONS

OFFICE AND ADMINISTRATIVE SUPPORT WORKERS		
43-1011	Office and Administrative Support Workers, Supervisors/First Line Managers	Supervise and coordinate the activities of clerical and administrative support workers.
43-2011	Switchboard Operators, Including Answering Service	Operate telephone business systems to relay calls. May supply information to callers and record messages.
43-2021	Telephone Operators	Provide information by accessing directories. Assist customers with special billing requests. May handle emergency calls and assist children or people with physical disabilities to make telephone calls.
43-2099	Communications Equipment Operators, All Other	Include all communications equipment operators not listed separately.
43-3011	Bill and Account Collectors	Locate and notify customers of delinquent accounts to solicit payment. Initiate repossession proceedings or service disconnection and keep records of collection and status of accounts.
43-3021	Billing and Posting Clerks and Machine Operators	Compile, compute, and record numerical data for billing purposes. Prepare billing invoices for services rendered or for delivery or shipment of goods.
43-3031	Bookkeeping, Accounting, and Auditing Clerks	Compute, classify, and record numerical data to keep financial records complete. Obtain primary financial data for use in maintaining accounting records. May also check the accuracy of business transactions recorded by other workers.
43-3041	Gaming Cage Workers	In a gaming establishment, conduct financial transactions for patrons and establish house credit accounts. May reconcile daily summaries of transactions.
43-3051	Payroll and Timekeeping Clerks	Compile, compute and/or post employee production, commission, wages, deductions and other payroll data. May prepare paychecks.
43-3061	Procurement Clerks	Compile information and records to draw up purchase orders for procurement of materials and services.
43-3071	Tellers	Receive and pay out money. Keep records of a financial institution's transactions.
43-4011	Brokerage Clerks	Perform clerical duties involving the purchase or sale of securities.
43-4021	Correspondence Clerks	Compose letters in reply to requests for merchandise, damage claims credit and information, delinquent accounts, incorrect billings, or unsatisfactory services. May include gathering data to formulate reply and typing correspondence.
43-4031	Court, Municipal, and License Clerks	Perform clerical duties in courts of law, municipalities, and governmental licensing agencies and bureaus. May prepare docket of cases, secure information for judges and court, prepare bylaws for town or city council, may issue licenses or permits, record data, administer tests, or collect fees. Include chief clerks with "Managers, All Other" (11-9199).
43-4041	Credit Authorizers, Checkers, and Clerks	Authorize credit charges against customers' accounts. Investigate credit history of individuals or business establishments applying for credit.
43-4051	Customer Service Representatives	Respond to queries from customers about products and services. Handle and resolve complaints. Exclude individuals whose duties are primarily sales or repair.
43-4061	Eligibility Interviewers, Government Programs	Determine eligibility of persons applying to receive assistance from government programs and agency resources, such as welfare, unemployment benefits, social security and public housing.
43-4071	File Clerks	File records according to the filing system used. Locate and remove material from file when requested.
43-4081	Hotel, Motel, and Resort Desk Clerks	Accommodate hotel, motel, and resort patrons. May transmit and receive messages and make and confirm reservations.
43-4111	Interviewers, Except Eligibility and Loan	Interview persons to complete forms, applications, or questionnaires. May sort, classify, and file forms.
43-4121	Library Assistants, Clerical	Compile records, sort and shelve books, and issue and receive library materials. Register patrons to permit them to borrow library materials.

DETAILED DESCRIPTIONS OF OCCUPATIONS

43-4131	Loan Interviewers and Clerks	Interview loan applicants to elicit information; investigate applicants' backgrounds and verify references; prepare loan request papers; and forward findings, reports, and documents to appraisal department. Review loan papers to ensure completeness and complete transactions upon approval of loan.
43-4141	New Accounts Clerks	Interview persons desiring to open bank accounts. Explain banking services available to prospective customers and assist them in preparing application form.
43-4151	Order Clerks	Receive and process incoming orders for goods or services. Exclude "Dispatchers, Except Police, Fire, and Ambulance" (43-5032) who both dispatch and take orders for services.
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	Compile and keep personnel records. Search employee files, type reports and furnish information to authorized persons.
43-4171	Receptionists and Information Clerks	Answer inquiries and obtain information for interested parties regarding activities conducted at establishment. Exclude "Switchboard Operators, Including Answering Service"(43-2011).
43-4181	Reservation and Transportation Ticket Agents, and Travel Clerks	Make and confirm reservations and sell tickets to passengers for large hotel or motel chains. May check baggage and direct passengers; arrange for visas; inform tourists of travel information. Exclude "Travel Agents" (41-3041) "Hotel, Motel, and Resort Desk Clerks" (43-4081) and "Cashiers" (41-2011) who sell tickets for local transportation.
43-4199	Information and Record Clerks, All Other	Include all information and record clerks not listed separately.
43-4199.01	Election Workers	Check voter information, distribute ballots, and assist voters if needed. May count ballots and prepare official records.
43-4199.03	Financial, Information and Record Clerks, All Other	Include all financial, information and record clerks not listed separately.
43-4199.05	Material Recording, Scheduling, Dispatching and Distribution Workers, All Other	Include all recording, scheduling, dispatching and record clerks not listed separately.
43-5011	Cargo and Freight Agents	Expedite and route movement of cargo and freight shipments. Take orders from customers and arrange pickup of freight and cargo for delivery to loading platform. Prepare and examine bills of lading.
43-5021	Couriers and Messengers	Pick up messages, documents, packages and other items and deliver them within an establishment or to other business concerns, traveling by foot, bicycle, motorcycle, automobile, or public conveyance. Exclude "Truck Drivers, Light or Delivery Services" (53-3033).
43-5031	Police, Fire, and Ambulance Dispatchers	Operate radio, telephone, or computer equipment to receive reports of fires and medical emergencies and complaints from public concerning crimes and police emergencies. Relay information or broadcast orders to proper officials.
43-5032	Dispatchers, Except Police, Fire, and Ambulance	Schedule and dispatch workers, work crews, equipment, or service vehicles outside the place of business. Duties may include using radio, telephone, or computer to transmit assignments and compiling statistics and reports on work progress.
43-5041	Meter Readers, Utilities	Read meter and record consumption of electricity, gas, water, or steam.
43-5051	Postal Service Clerks	Perform any combination of tasks in a post office.
43-5052	Postal Service Mail Carriers	Sort mail for delivery. Deliver mail on established route by vehicle or on foot.
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	Prepare incoming and outgoing mail for distribution. Load, operate, and occasionally adjust and repair mail processing, sorting, and canceling machinery. Keep records of shipments, pouches, and sacks; and other duties related to mail handling within the postal service. Must complete a competitive exam. Exclude "Postal Service Clerks (43-5051)" and Postal Service Mail Carriers"(43-5052).
43-5061	Production, Planning, and Expediting Clerks	Coordinate and expedite the flow of work and materials within or between departments of an establishment according to production schedule. Exclude "Weighers, Measurers, Checkers, and Samplers, Recordkeeping" (43-5111).

DETAILED DESCRIPTIONS OF OCCUPATIONS

43-5071	Shipping, Receiving, and Traffic Clerks	Verify and keep records on shipments coming into or going out of the establishment. Prepare items for shipment. Exclude "Stock Clerks and Order Fillers" (43-5081) and "Weighers, Measurers, Checkers, and Samplers, Recordkeeping" (43-5111).
43-5081	Stock Clerks and Order Fillers	Receive, store, and issue items within the establishment to fill shelves, racks, tables, or customers' orders. May mark prices on merchandise and set up sales displays. Exclude "Laborers and Freight, Stock, and Material Movers, Hand" (53-7062), and "Shipping, Receiving, and Traffic Clerks" (43-5071).
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	Weigh, measure, and check materials, supplies, and equipment to keep relevant records. Include workers who collect and keep record of samples of products or materials. Exclude production "Inspectors, Testers, Sorters, Samplers, and Weighers" (51-9061).
43-6011	Executive Secretaries and Administrative Assistants	Provide high-level administrative support. May also train and supervise lower-level clerical staff. Exclude "Legal and Medical Secretaries".
43-6012	Legal Secretaries	Perform secretarial duties utilizing legal terminology, procedures, and documents. Prepare legal papers and correspondence. May also assist with legal research.
43-6013	Medical Secretaries	Perform secretarial duties utilizing specific knowledge of medical terminology and hospital, clinic, or laboratory procedures.
43-6014	Secretaries, Except Legal, Medical, and Executive	Perform routine clerical and administrative functions. Exclude "Legal, Medical, or Executive Secretaries and Administrative Assistants".
43-9011	Computer Operators	Monitor and control electronic computer and peripheral electronic data processing equipment to process data according to operating instructions. Exclude "Data Entry Keyers" (43-9021).
43-9021	Data Entry Keyers	Operate data entry device, such as keyboard or photo composing perforator. Duties may include verifying data and preparing materials for printing. Exclude "Word Processors and Typists" (43-9022).
43-9022	Word Processors and Typists	Use word processor/computer or typewriter to type letters, reports, forms, or other material. May perform other clerical duties as assigned. Include composing data keyers. Exclude "Data Entry Keyers" (43-9021), "Court Reporters" (23-2091), "Medical Transcriptionists" (31-9094), and "Secretaries and Administrative Assistants" (43-6011).
43-9031	Desktop Publishers	Format typescript and graphic elements using computer software to produce publication-ready material.
43-9041	Insurance Claims and Policy Processing Clerks	Process new insurance policies, modifications to existing policies, and claims forms. Exclude "Claims Adjusters, Examiners, and Investigators" (13-1031).
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	Prepare incoming and outgoing mail for distribution. Duties may also include keeping necessary records and completed forms.
43-9061	Office Clerks, General	Perform duties too varied and diverse to be classified in any specific office clerical occupation, requiring limited knowledge of office management systems and procedures.
43-9071	Office Machine Operators, Except Computer	Operate one or more of a variety of office machines. Exclude "Computer Operators" (43-9011), "Mail Clerks and Mail Machine Operators" (43-9051) and "Billing and Posting Clerks and Machine Operators" (43-3021).
43-9081	Proofreaders and Copy Markers	Read transcript or proof type setup and mark for correction. Exclude workers whose primary duty is editing copy. Include proofreaders of Braille.
43-9111	Statistical Assistants	Compile and compute data according to statistical formulas for use in statistical studies. Include actuarial clerks.
43-9199	Office and Administrative Support Workers, All Other	Include all office and administrative support workers not listed separately.

DETAILED DESCRIPTIONS OF OCCUPATIONS

FARMING, FISHING, AND FORESTRY WORKERS

45-1011	Farming, Fishing, and Forestry Workers Supervisors/ First Line Managers	Directly supervise and coordinate the activities of agricultural, forestry, aquacultural, and related workers. Exclude "First Line Supervisors/Managers of Landscaping, Lawn Service, and Groundskeeping Workers" (37-1012).
45-1011.05	Logging Workers Supervisors/First Line Managers	Directly supervise and coordinate the activities of logging workers, such as fallers, choker setters, chasers, rigging slingers and yarder engineers. May use hand or handheld power tools. Include "Hook Tenders".
45-1012	Farm Labor Contractors	Recruit, hire, furnish and supervise seasonal or temporary agricultural laborers for a fee. May transport, house and provide meals for workers.
45-2011	Agricultural Inspectors	Inspect agricultural commodities, processing equipment and facilities, and fish and logging operations to ensure compliance with regulations and laws governing health, quality, and safety.
45-2021	Animal Breeders	Breed animals. May require knowledge of artificial insemination techniques and equipment use. May involve keeping records on breeding. Exclude "Nonfarm Animal Caretakers" (39-2021) who may occasionally breed animals as part of their other caretaking duties and "Animal Scientist" (19-1011) whose primary function is research.
45-2041	Graders and Sorters, Agricultural Products	Grade, sort, or classify unprocessed food and other agricultural products by size, weight, color, or condition. Exclude "Agricultural Inspectors"(45-2011).
45-2091	Agricultural Equipment Operators	Drive and control farm equipment to till soil and to plant, cultivate, and harvest crops, or to perform post-harvest tasks.
45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	Manually plant, cultivate, and harvest crops. Use hand tools. Duties may include grading, sorting, packing and loading harvested products. Exclude "Graders and Sorters, Agricultural Products"(45-2041) "Forest, Conservation" (19-4093) and "Logging Workers".
45-2093	Farmworkers, Farm and Ranch Animals	Attend to live farm, ranch, or aquacultural animals or to animals produced for animal products. May maintain records on animals. Include workers who shear wool from sheep, and collect eggs in hatcheries.
45-2099	Agricultural Workers, All Other	Include all agricultural workers not listed separately.
45-3011	Fishers and Related Fishing Workers	Use equipment to catch and gather aquatic animals for human consumption or other uses. Aquacultural laborers who work on fish farms are classified with "Agricultural Workers, All Other" (45-2099).
45-3021	Hunters and Trappers	Hunt and trap wild animals for human consumption, fur, feed, bait, or other purposes.
45-4011	Forest and Conservation Workers	Under supervision, perform manual labor necessary to develop, maintain, or protect forest, forested areas, and woodlands. Include forester aides, seedling pullers, and tree planters.
45-4021	Fallers and Buckers	Use axes or chainsaws to fell trees. Control direction of fall and minimize tree damage.
45-4021.01	Choker Setters and Chasers	Fasten or release choker cable around logs. Trim limbs from fallen trees using axes and chainsaws. Include "Rigging Slingers".
45-4022	Logging Equipment Operators	Drive logging tractor or wheeled vehicle equipped with one or more accessories to perform logging activities. Include "Yarder Engineer".
45-4023	Log Graders and Scalers	Grade logs or estimate the marketable content or value of logs or pulpwood. Inspect logs for defects or measure logs to determine volume. Exclude "Purchasing Agents and Buyers, Farm Products" (13-1021).
45-4029	Logging Workers, All Other	Include all logging workers not listed separately.

DETAILED DESCRIPTIONS OF OCCUPATIONS

CONSTRUCTION AND EXTRACTION WORKERS

47-1011	Construction Trades and Extraction Workers First Line Supervisors/Managers	Directly supervise and coordinate activities of construction or extraction workers.
47-2011	Boilermakers	Construct, assemble, maintain, and repair stationary steam boilers and boiler house auxiliaries. Assist in testing assembled vessels. Inspect and repair and direct cleaning of boilers and boiler furnaces.
47-2021	Brickmasons and Blockmasons	Lay and bind building materials, such as brick, structural tile, concrete, cinder, glass, and terracotta block, with mortar and other substances to construct or repair structures. Exclude "Stonemasons"(47-2022). Classify installers of mortarless segmental concrete masonry wall units in "Landscaping and Groundskeeping Workers" (37-3011).
47-2022	Stonemasons	Build stone structures. Lay masonry for vats, tanks, and floors.
47-2031	Carpenters	Construct, erect, install, or repair structures and fixtures made of wood. May also install cabinets, siding, drywall or insulation. Include brattice builders.
47-2041	Carpet Installers	Lay and install carpet. Install padding and trim flooring materials. Exclude "Floor Layers, Except Carpet, Wood, and Hard Tiles" (47-2042).
47-2042	Floor Layers, Except Carpet, Wood, and Hard Tiles	Apply blocks, strips, or sheets of shock-absorbing, sound-deadening, or decorative coverings to floors.
47-2043	Floor Sanders and Finishers	Scrape and sand wooden floors and apply coats of finish.
47-2044	Tile and Marble Setters	Apply hard tile, marble, and wood tile to walls, floors, ceilings, and roof decks.
47-2051	Cement Masons and Concrete Finishers	Smooth and finish surfaces of poured concrete using a variety of hand and power tools. Align forms; patch voids; cut expansion joints. Classify installers of mortarless segmental concrete masonry wall units in "Landscaping and Groundskeeping Workers" (37-3011).
47-2053	Terrazzo Workers and Finishers	Apply a mixture of cement, sand, pigment, or marble chips to floors, stairways, and cabinet fixtures to fashion durable and decorative surfaces.
47-2061	Construction Laborers	Perform tasks involving physical labor at construction sites. May operate hand and power tools of all types. May assist other craft workers; however, construction laborers who primarily assist a particular craft worker are classified under "Helpers, Construction Trades".
47-2071	Paving, Surfacing, and Tamping Equipment Operators	Operate equipment used for applying concrete, asphalt, or other materials. Include concrete and asphalt paving machine operators, form tampers, tamping machine operators, and stone spreader operators.
47-2072	Pile-Driver Operators	Operate pile drivers to drive pilings for retaining walls, bulkheads, and foundations of structures.
47-2073	Operating Engineers and Other Construction Equipment Operators	Operate one or several types of power construction equipment. May repair and maintain equipment in addition to other duties. Exclude "Crane and Tower Operators" (53-7021) and equipment operators who work in extraction or other nonconstruction industries.
47-2081	Drywall and Ceiling Tile Installers	Apply plasterboard or other wallboard and mount acoustical tiles or shock-absorbing materials to ceilings or interior walls of buildings. Include lathers who fasten lath as a support base for plaster, fireproofing, or acoustical material. Exclude "Carpet Installers"(47-2041), "Carpenters"(47-2031), and "Title and Marble Setter" (47-2044).
47-2082	Tapers	Seal joints between plasterboard or other wallboard to prepare wall surface for painting or papering.
47-2111	Electricians	Install, maintain, and repair electrical wiring, equipment, and fixtures. Ensure that work is in accordance with relevant codes. Exclude "Security and Fire Alarm Systems Installers" (49-2098).
47-2121	Glaziers	Install glass in windows, skylights, store fronts, and display cases, or on surfaces. Exclude "Automotive Glass Installers and Repairers" (49-3022).
47-2131	Insulation Workers, Floor, Ceiling, and Wall	Line and cover structures with insulating materials.

DETAILED DESCRIPTIONS OF OCCUPATIONS

47-2132	Insulation Workers, Mechanical	Apply insulating materials to mechanical systems in order to help control and maintain temperature.
47-2141	Painters, Construction and Maintenance	Paint structural surfaces. May remove old paint to prepare surface prior to painting. May mix colors or oils to obtain desired color or consistency. Exclude "Paperhangers" (47-2142).
47-2142	Paperhangers	Cover interior walls and ceilings of rooms with decorative wallpaper or fabric, or attach advertising posters on surfaces. Remove old materials from surface to be papered.
47-2151	Pipelayers	Lay pipe. Grade trenches or culverts, position pipe, or seal joints. Exclude "Welders, Cutters, Solderers, and Brazers" (51-4121).
47-2152	Plumbers, Pipefitters, and Steamfitters	Assemble, install, alter, and repair pipelines or pipe systems that carry liquids or gases. May install heating and cooling equipment and mechanical control systems.
47-2161	Plasterers and Stucco Masons	Apply interior or exterior plaster, cement, stucco, or similar materials. May also set ornamental plaster.
47-2171	Reinforcing Iron and Rebar Workers	Position and secure steel bars or mesh in concrete forms in order to reinforce concrete. Include rod busters.
47-2181	Roofers	Cover roofs of structures. May spray roofs, sidings, and walls with material to bind, seal, insulate, or soundproof sections of structures.
47-2211	Sheet Metal Workers	Fabricate, assemble, install, and repair sheet metal products and equipment. Include sheet metal duct installers who install prefabricated sheet metal ducts used for heating, air conditioning, or other purposes.
47-2221	Structural Iron and Steel Workers	Raise, place, and unite structural members to form completed structures or frameworks. Erect metal storage tanks and assemble prefabricated metal buildings. Exclude "Reinforcing Iron and Rebar Workers" (47-2171).
47-3011	Helpers -- Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	Help brickmasons, blockmasons, stonemasons, or tile and marble setters by performing duties of lesser skill. Apprentice workers are reported with the appropriate skilled construction trade occupation. Excludes construction Laborers who do not primarily assist brickmasons, blockmasons, stone masons or tile and marble setters and classified under "Construction Laborers" (47-2061).
47-3012	Helpers -- Carpenters	Help carpenters by performing duties of lesser skill. Apprentice workers are reported with the appropriate skilled construction trade occupation.
47-3013	Helpers -- Electricians	Help electricians by performing duties of lesser skill. Apprentice workers are reported with the appropriate skilled construction trade occupation.
47-3014	Helpers -- Painters, Paperhangers, Plasterers, and Stucco Masons	Help painters, paperhangers, plasterers, or stucco masons by performing duties of lesser skill. Apprentice workers are reported with the appropriate skilled construction trade occupation.
47-3015	Helpers -- Pipelayers, Plumbers, Pipefitters, and Steamfitters	Help plumbers, pipefitters, steamfitters, or pipelayers by performing duties of lesser skill. Apprentice workers are reported with the appropriate skilled construction trade occupation.
47-3016	Helpers -- Roofers	Help roofers by performing duties of lesser skill. Apprentice workers are reported with the appropriate skilled construction trade occupation.
47-3019	Helpers, Construction Trades, All Other	Include all construction trades helpers not listed separately.
47-4011	Construction and Building Inspectors	Inspect structures using engineering skills to determine structural soundness and compliance with regulations. Inspections may be general in nature or may be limited to a specific area.
47-4021	Elevator Installers and Repairers	Assemble, install, repair, or maintain electric or hydraulic freight or passenger elevators, escalators, or dumbwaiters.
47-4031	Fence Erectors	Erect and repair metal and wooden fences and fence gates using hand and power tools.
47-4041	Hazardous Materials Removal Workers, Spill Response Technician	Identify, remove, pack, transport, or dispose of hazardous materials. Specialized training and certification in hazardous materials handling or a confined entry permit are generally required. May operate earthmoving equipment or trucks.

DETAILED DESCRIPTIONS OF OCCUPATIONS

47-4051	Highway Maintenance Workers	Maintain highways, municipal and rural roads, airport runways, and rights-of-way. May also mow or clear brush from along road or plow snow from roadway. Exclude "Tree Trimmers and Pruners" (37-3013).
47-4061	Rail Track Laying and Maintenance Equipment Operators	Lay, repair, and maintain track for railroad equipment. Include ballast cleaning machine operators and road bed tamping machine operators.
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	Clean and repair septic tanks, sewer lines, or drains.
47-4091	Segmental Pavers	Lay out, cut, and paste segmental paving units. Include installers of bedding and restraining materials for the paving units.
47-4099	Construction and Related Workers, All Other	Include all construction and related workers not listed separately.
47-5011	Derrick Operators, Oil and Gas	Rig derrick equipment and operate pumps to circulate mud through drill hole.
47-5012	Rotary Drill Operators, Oil and Gas	Set up or operate a variety of drills to remove petroleum products from the earth and to find and remove core samples for testing.
47-5013	Service Unit Operators, Oil, Gas, and Mining	Operate equipment to increase oil flow from producing wells or to remove obstructions from drilling wells. May also perform similar services in mining exploration operations. Include fishing tool technicians.
47-5021	Earth Drillers, Except Oil and Gas	Operate a variety of drills to tap subsurface water and salt deposits, to remove core samples during mineral exploration or soil testing, and to facilitate the use of explosives in mining or construction. May use explosives. Include horizontal and earth boring machine operators.
47-5031	Explosives Workers, Ordnance Handling Experts, and Blasters	Place and detonate explosives to demolish structures or to loosen, remove, or displace materials. May perform specialized handling, storage, and accounting procedures. Include seismograph shooters. Exclude "Earth Drillers, Except Oil and Gas" (47-5021) who may also work with explosives.
47-5041	Continuous Mining Machine Operators	Operate self-propelled mining machines that rip materials from the face and load it onto conveyors or into shuttle cars in a continuous operation.
47-5042	Mine Cutting and Channeling Machine Operators	Operate machinery to cut or channel along the face or seams of mining surfaces to facilitate blasting, separating, or removing minerals or materials. Include shale planers.
47-5049	Mining Machine Operators, All Other	Include all mining machine operators not listed separately.
47-5051	Rock Splitters, Quarry	Separate blocks of rough dimension stone from quarry mass using jackhammer and wedges.
47-5061	Roof Bolters, Mining	Operate machinery to install roof support bolts in underground mine.
47-5071	Roustabouts, Oil and Gas	Assemble or repair oil field equipment using hand and power tools. Perform other tasks as needed.
47-5081	Helpers -- Extraction Workers	Help extraction craft workers by performing duties of lesser skill. Apprentice workers are reported with the appropriate skilled extraction trade occupation.
47-5099	Extraction Workers, All Other	Include all extraction workers not listed separately.
47-5099.01	Miners, Except Drillers and Machine Operators	Remove ore, coal or rock from the earth using hand or handheld power tools. May build and install wall and ceiling supports, develop ventilation or lay track.

DETAILED DESCRIPTIONS OF OCCUPATIONS

INSTALLATION, MAINTENANCE, AND REPAIR OCCUPATIONS

49-1011	Mechanics, Installers, and Repairers Supervisors/First Line Managers	Supervise and coordinate the activities of mechanics, installers, and repairers. Exclude team or work leaders.
49-2011	Computer, Automated Teller, and Office Machine Repairers	Repair, maintain, or install computers, word processing systems, automated teller machines, and electronic office machines.
49-2021	Radio Mechanics	Test or repair mobile or stationary radio transmitting and receiving equipment and two-way radio communications systems.
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	Setup, rearrange, or remove switching and dialing equipment used in central offices. Service or repair telephones and other communication equipment on customers' property. May install equipment or wiring in new locations or in buildings under construction.
49-2091	Avionics Technicians	Install, inspect, test, adjust, or repair avionics equipment in aircraft or space vehicles.
49-2092	Electric Motor, Power Tool, and Related Repairers	Repair, maintain, or install electric motors, wiring, or switches.
49-2093	Electrical and Electronics Installers and Repairers, Transportation Equipment	Install, adjust, or maintain mobile electronics communication equipment, including sound, sonar, security, navigation, and surveillance systems on mobile equipment. Exclude "Avionics Technicians" (49-2091) and "Electronic Equipment Installers and Repairers, Motor Vehicles" (49-2096).
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	Repair, test, adjust, or install electronic equipment. Exclude "Avionics Technicians" (49-2091), "Electronic Equipment Installers and Repairers, Motor Vehicles" (49-2096), and "Electrical and Electronics Installers and Repairers, Transportation Equipment" (49-2093).
49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	Inspect, test, repair, or maintain electrical equipment in generating stations, substations, and in-service relays.
49-2096	Electronic Equipment Installers and Repairers, Motor Vehicles	Install, diagnose, or repair communications, sound, security, or navigation equipment in motor vehicles.
49-2097	Electronic Home Entertainment Equipment Installers and Repairers	Repair, adjust, or install audio or television receivers, stereo systems, camcorders, video systems or other electronic home entertainment equipment.
49-2098	Security and Fire Alarm Systems Installers	Install, program, maintain, and repair security and fire alarm wiring and equipment. Ensure that work is in accordance with relevant codes.
49-3011	Aircraft Mechanics and Service Technicians	Diagnose, adjust, repair, or overhaul aircraft and helicopter engines and assemblies. Exclude "Avionics Technician" (49-2091).
49-3021	Automotive Body and Related Repairers	Repair and refinish automotive vehicle bodies and straighten vehicle frames. Exclude "Painters, Transportation Equipment" (51-9122) and "Automotive Glass Installers and Repairers" (49-3022).
49-3022	Automotive Glass Installers and Repairers	Replace or repair broken windshields and window glass in motor vehicles.
49-3023	Automotive Service Technicians and Mechanics	Diagnose, adjust, repair, or overhaul automotive vehicles. Exclude "Automotive Body and Related Repairers" (49-3021), "Bus and Truck Mechanics and Diesel Engine Specialists" (49-3031), and "Electronic Equipment Installers and Repairers, Motor Vehicles" (49-2096).
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	Diagnose, adjust, repair, or overhaul trucks, buses, and all types of diesel engines. Include mechanics working primarily with automobile diesel engines. Exclude "Motorboat Mechanics" (49-3051).
49-3041	Farm Equipment Mechanics	Diagnose, adjust, repair, or overhaul farm machinery and vehicles. Exclude "Bus and Truck Mechanics and Diesel Engine Specialists" (49-3031).
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	Diagnose, adjust, repair, or overhaul mobile mechanical, hydraulic, and pneumatic equipment. Exclude "Rail Car Repairers" (49-3043) and "Bus and Truck Mechanics and Diesel Engine Specialists" (49-3031).
49-3042.01	Mechanics, Mine Machinery	Repair, adjust and maintain mine machinery such as pumps, compressors, pneumatic tools, conveyors, drilling and cutting machines, and mining cars.

Note: For the online version of this manual, see our web site at <http://www.labor.state.ak.us/research/erq/occmanual.pdf>

DETAILED DESCRIPTIONS OF OCCUPATIONS

49-3043	Rail Car Repairers	Diagnose, adjust, repair, or overhaul rail cars. Excludes "Bus and Truck Mechanics and Diesel Engine Specialists" (49-3031).
49-3051	Motorboat Mechanics	Repairs and adjusts boat engines. Exclude "Diesel Engine Specialists" (49-3031)
49-3052	Motorcycle Mechanics	Diagnose, adjust, repair, or overhaul motorcycles, scooters, mopeds, dirt bikes, or similar motorized vehicles.
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	Diagnose, adjust, repair, or overhaul small engines used to power lawn mowers, chain saws, and related equipment.
49-3091	Bicycle Repairers	Repair and service bicycles.
49-3092	Recreational Vehicle Service Technicians	Diagnose, inspect, adjust, repair, or overhaul recreational vehicles including travel trailers. Include workers who perform customized van conversions. Exclude "Automotive Service Technician Mechanics" (49-3023) "Bus, Truck and Diesel Mechanics" (49-3031).
49-3093	Tire Repairers and Changers	Repair and replace tires.
49-9011	Mechanical Door Repairers	Install, service, or repair opening and closing mechanisms of automatic doors and hydraulic door closers. Include garage door mechanics.
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	Install, repair, and maintain mechanical regulating and controlling devices, such as electric meters, gas regulators, thermostats, safety and flow valves, and mechanical governors.
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	Install or repair heating, central air conditioning, or refrigeration systems, including oil burners, hot-air furnaces, and heating stoves.
49-9031	Home Appliance Repairers	Repair, adjust, or install all types of electric or gas household appliances.
49-9041	Industrial Machinery Mechanics	Repair, install, adjust, or maintain industrial production and processing machinery or refinery and pipeline distribution systems. Exclude "Millwrights" (49-3044), "Mobile Heavy Equipment Mechanics, Except Engines" (49-3042) and "Maintenance Workers, Machinery" (49-9043) who perform only routine tasks.
49-9042	Maintenance and Repair Workers, General	Perform work involving the skills of two or more maintenance or craft occupations to keep machines, mechanical equipment, or the structure of an establishment in repair. Exclude "Maintenance Workers, Machinery" (49-9043).
49-9043	Maintenance Workers, Machinery	Lubricate machinery, change parts, or perform other routine machinery maintenance. Exclude "Maintenance and Repair Workers, General" (49-9042).
49-9044	Millwrights	Install, dismantle, or move machinery and heavy equipment according to layout plans, blueprints, or other drawings.
49-9045	Refractory Materials Repairers, Except Brickmasons	Build or repair furnaces, kilns, cupolas, boilers, converters, ladles, soaking pits, ovens, etc., using refractory materials.
49-9051	Electrical Powerline Installers and Repairers	Install or repair cables or wires used in electrical power or distribution systems. Exclude "Electrical and Electronics Repairers, Powerhouse, Substation, and Relay" (49-2095).
49-9052	Telecommunications Line Installers and Repairers	String and repair telephone and television cable, including fiber optics and other equipment for transmitting messages or television programming.
49-9061	Camera and Photographic Equipment Repairers	Repair and adjust cameras and photographic equipment, including commercial video and motion picture camera equipment.
49-9062	Medical Equipment Repairers	Test, adjust, or repair biomedical or electromedical equipment.
49-9063	Musical Instrument Repairers and Tuners	Repair instruments. May specialize in one area. Exclude "Electronic Home Entertainment Equipment Installers and Repairers" (49-2097) who repair electrical and electronic musical instruments.
49-9064	Watch Repairers	Repair, clean, and adjust mechanisms of timing instruments. Include watchmakers.
49-9069	Precision Instrument and Equipment Repairers, All Other	Include all precision instrument and equipment repairers not listed separately.
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	Install, service, adjust, or repair coin, vending, or amusement machines.

DETAILED DESCRIPTIONS OF OCCUPATIONS

49-9092	Commercial Divers	Work below surface of water, using scuba gear to inspect, repair, remove, or install equipment and structures. Exclude "Fishers and Related Fishing Workers" (45-3011), "Athletes and Sports Competitors" (27-2021), and "Police and Sheriff's Patrol Officers" (33-3051).
49-9093	Fabric Menders, Except Garment	Repair tears, holes, and other defects in fabrics, such as draperies, linens, parachutes, and tents.
49-9094	Locksmiths and Safe Repairers	Repair and open locks; make keys; change locks and safe combinations; and install and repair safes.
49-9095	Manufactured Building and Mobile Home Installers	Move or install mobile homes or prefabricated buildings.
49-9096	Riggers	Set up or repair rigging.
49-9097	Signal and Track Switch Repairers	Install, inspect, test, maintain, or repair electric gate crossings, signals, track switches, section lines, or intercommunications systems within a railroad system.
49-9098	Helpers Installation, Maintenance, and Repair Workers	Help installation, maintenance, and repair workers in maintenance, parts replacement, and repair of vehicles, industrial machinery, and electrical and electronic equipment.
49-9099	Installation, Maintenance, and Repair Workers, All Other	Include all mechanical, installation, and repair workers and helpers not listed separately.
49-9099.02	Electrical and Electronic Equipment Mechanics, Installation and Repairers, All other	Include all electrical and electronic equipment, maintenance, installation and repairers not listed separately.
49-9099.03	Vehicle, Mobile Equipment Mechanics, Installers, and Repairers, All Other	Include all vehicle mechanics, installers, repairers, all other not listed separately

DETAILED DESCRIPTIONS OF OCCUPATIONS

PRODUCTION OCCUPATIONS		
51-1011	Production and Operating Workers Supervisors/First Line Managers	Supervise and coordinate the activities of production and operating workers. Exclude team or work leaders.
51-1011.01	Seafood Processing Workers Supervisors/First Line Managers	Supervise and coordinate the activities of workers processing fish, shellfish or other seafood products. Oversee quality control procedures. May train or instruct workers. May perform the duties of a buyer's representative. Exclude team or work leaders.
51-2011	Aircraft Structure, Surfaces, Rigging, and Systems Assemblers	Assemble, fit, fasten, and install parts of airplanes, space vehicles, or missiles.
51-2021	Coil Winders, Tapers, and Finishers	Wind wire coils used in electrical components and in electrical equipment and instruments.
51-2022	Electrical and Electronic Equipment Assemblers	Assemble or modify electrical or electronic equipment, such as computers, test equipment telemarketing systems, electric motors, and batteries.
51-2023	Electromechanical Equipment Assemblers	Assemble or modify electromechanical equipment or devices, such as servomechanism, gyros, magnetic drums, tape drive, brakes, control linkage, actuators, and appliances.
51-2031	Engine and Other Machine Assemblers	Construct, assemble, or rebuild machines used in such industries, as construction, extraction, textiles, and paper manufacturing.
51-2041	Structural Metal Fabricators and Fitters	Fabricate, lay out, position, align, and fit parts of structural metal products.
51-2091	Fiberglass Laminators and Fabricators	Laminate layers of fiberglass on molds to form products.
51-2092	Team Assemblers	Work as part of a team having responsibility for assembling an entire product or component of a product. Team assemblers rotate through tasks rather than being assigned to a specific task on a permanent basis. May participate in making management decisions affecting the work. Excludes assemblers who continuously perform the same task.
51-2093	Timing Device Assemblers, Adjusters, and Calibrators	Perform precision assembling or adjusting, within narrow tolerances, of timing devices. Exclude "Watch Repairers" (49-9064).
51-2099	Assemblers and Fabricators, All Other	Include all assemblers and fabricators not listed separately.
51-3011	Bakers	Mix and bake ingredients according to recipes. Include pastry chefs working in restaurants and hotels with "Chefs and Head Cooks".
51-3021	Butchers and Meat Cutters	Cut, trim, or prepare consumer-sized portions of meat for use or sale in retail establishments.
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	Use hand tools to perform routine cutting and trimming of meat, poultry, and fish.
51-3022.05	Seafood Processing Workers, Except Surimi and Fish Roe	Perform a variety of routine tasks in canning, freezing, preserving, or packing seafood products involving a combination of handwork and machinery. Duties may include sorting, grading, washing, cutting, trimming, cleaning, or slicing seafood in preparation for canning, freezing or smoking. Operate or tend machines, except BAADER equipment, to prepare product for shipment. Monitor the quality of the product.
51-3023	Slaughterers and Meat Packers	Work in slaughtering, meat packing, or wholesale establishments performing precision functions involving the preparation of meat. Exclude "Meat, Poultry, and Fish Cutters and Trimmers" (51-3022) who perform routine, lower-skilled meat cutting.
51-3091	Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders	Operate or tend food or tobacco roasting, baking, or drying equipment.
51-3092	Food Batchmakers	Set up and operate mixing or blending equipment used in the manufacturing of food products. Include candy makers and cheese makers.
51-3092.01	Surimi Technicians	Set up and operate processing equipment used in the production and packing of surimi. Monitor the quality of the product. May sort and grade fish.

DETAILED DESCRIPTIONS OF OCCUPATIONS

51-3092.02	Fish Roe Technicians	Sort and grade fish eggs (roe) by size, color, condition, or weight. Harvest, process, and pack roe. Monitor the quality of the product.
51-3093	Food Cooking Machine Operators and Tenders	Operate or tend cooking equipment used in the preparation of food products. Exclude "Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders" (51-3091).
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	Operate computer-controlled machines or robots to perform one or more machine functions on metal or plastic work pieces.
51-4012	Numerical Tool and Process Control Programmers	Develop programs to control machining or processing of parts by automatic machine tools, equipment, or systems.
51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	Set up, operate, or tend machines to extrude or draw thermoplastic or metal materials into tubes, rods, hoses, wire, bars, or structural shapes.
51-4022	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	Set up, operate, or tend forging machines to taper, shape, or form metal or plastic parts.
51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	Set up, operate, or tend machines to roll steel or plastic into desired shapes or reduce gauge of material.
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	Set up, operate, or tend machines to saw, cut, shear, slit, punch, crimp, notch, bend, or straighten metal or plastic material.
51-4032	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	Set up, operate, or tend drilling machines to drill, bore, ream, mill, or countersink metal or plastic work pieces.
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	Set up, operate, or tend grinding and related tools that remove excess material or burrs from surfaces, sharpen edges or corners, or buff, hone, or polish metal or plastic work pieces.
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	Set up, operate, or tend lathe and turning machines to turn, bore, thread, form, or face metal or plastic materials.
51-4035	Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	Set up, operate, or tend milling or planing machines to mill, plane, shape, groove, or profile metal or plastic work pieces.
51-4041	Machinists	Set up and operate a variety of machine tools to produce precision parts and instruments. Include precision instrument makers. May also fabricate and modify parts to make or repair machine tools or maintain industrial machines.
51-4051	Metal Refining Furnace Operators and Tenders	Operate or tend furnaces to melt and refine metal before casting or to produce specified types of steel. Exclude "Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic" (51-4191).
51-4052	Pourers and Casters, Metal	Operate hand-controlled mechanisms to pour and regulate the flow of molten metal into molds to produce castings or ingots.
51-4061	Model Makers, Metal and Plastic	Set up and operate machines to make working models of metal or plastic objects. Include template makers.
51-4062	Patternmakers, Metal and Plastic	Lay out, machine, fit, and assemble castings and parts to metal or plastic foundry patterns, core boxes, or match plates.
51-4071	Foundry Mold and Coremakers	Make or form wax or sand cores or molds used in the production of metal castings in foundries.
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	Set up, operate, or tend machines to mold or cast metal or thermoplastic parts or products.
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	Set up, operate, or tend more than one type of cutting or forming machine tool or robot.
51-4111	Tool and Die Makers	Analyze specifications, lay out metal stock, set up and operate machine tools, and fit and assemble parts to make and repair dies, cutting tools, jigs, fixtures, gauges, and machinists' hand tools.

DETAILED DESCRIPTIONS OF OCCUPATIONS

51-4121	Welders, Cutters, Solderers, and Brazers	Use hand equipment to weld or join metal components or to fill holes, indentations, or seams of fabricated metal products.
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	Set up, operate, or tend machines or robots that weld, braze, solder, or heat treat metal products, components, or assemblies. Include workers who operate laser cutters or laser-beam machines.
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	Set up, operate, or tend heating equipment to temper, harden, anneal, or heat-treat metal or plastic objects. Exclude "Metal-Refining Furnace Operators and Tenders" (51-4051).
51-4192	Lay-Out Workers, Metal and Plastic	Lay out reference points and dimensions on metal or plastic stock or work-pieces for further processing. Include shipfitters.
51-4193	Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	Set up, operate, or tend machines to coat or plate metal or plastic products with metals to protect or decorate surfaces. Include electrolytic processes.
51-4194	Tool Grinders, Filers, and Sharpeners	Perform precision smoothing, sharpening, polishing, or grinding of metal objects.
51-4199	Metal Workers and Plastic Workers, All Other	Include all metalworkers and plastic workers not listed separately.
51-5011	Bindery Workers	Set up or operate binding machines that produce books and other printed materials. Include hand bindery workers. Exclude "Bookbinders" (51-5012).
51-5012	Bookbinders	Perform highly skilled hand finishing operations to bind books.
51-5021	Job Printers	Set type according to copy; operate press to print job order; and read proof for errors and clarity of impression, and correct imperfections. Job printers are often found in small establishments where work combines several job skills.
51-5022	Prepress Technicians and Workers	Set up and prepare material for printing presses. Include prepress functions.
51-5023	Printing Machine Operators	Set up or operate various types of printing machines to produce print on paper or other materials.
51-6011	Laundry and Dry Cleaning Workers	Operate or tend washing or dry-cleaning machines for industrial or household articles. Include spotters and dyers of these articles.
51-6021	Pressers, Textile, Garment, and Related Materials	Press or shape articles by hand or machine.
51-6031	Sewing Machine Operators	Operate or tend sewing machines to perform sewing operations in the manufacture of garment or nongarment products.
51-6041	Shoe and Leather Workers and Repairers	Construct, decorate, or repair leather and leather-like products.
51-6042	Shoe Machine Operators and Tenders	Operate or tend a variety of machines to join, decorate, reinforce, or finish shoes and shoe parts.
51-6051	Sewers, Hand	Sew, join, reinforce, or finish, usually with needle and thread, a variety of manufactured items. Include weavers and stitchers. Exclude "Fabric Menders, Except Garment" (49-9093).
51-6052	Tailors, Dressmakers, and Custom Sewers	Design, make, alter, repair, or fit garments.
51-6061	Textile Bleaching and Dyeing Machine Operators and Tenders	Operate or tend machines to bleach, shrink, wash, dye, or finish textiles or synthetic or glass fibers.
51-6062	Textile Cutting Machine Setters, Operators, and Tenders	Set up, operate, or tend machines that cut textiles.
51-6063	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	Set up, operate, or tend machines that knit, loop, weave, or draw in textiles. Exclude "Sewing Machine Operators" (51-6031).
51-6064	Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders	Set up, operate, or tend machines that wind or twist textiles; or draw out and combine sliver fibers. Include slubber machine and drawing frame operators.
51-6091	Extruding and Forming Machine Setters, Operators, and Tenders, Synthetic and Glass Fibers	Set up, operate, or tend machines that extrude and form continuous filaments from synthetic materials.
51-6092	Fabric and Apparel Patternmakers	Draw and construct sets of precision master fabric patterns or layouts. May also mark and cut fabrics and apparel.

DETAILED DESCRIPTIONS OF OCCUPATIONS

51-6093	Upholsterers	Make, repair, or replace upholstery for household furniture or transportation vehicles.
51-6099	Textile, Apparel, and Furnishings Workers, All Other	Include all textile, apparel, and furnishings workers not listed separately.
51-7011	Cabinetmakers and Bench Carpenters	Cut, shape, and assemble wooden articles or set up and operate a variety of woodworking machines to surface, cut, or shape lumber or to fabricate parts for wood products. Exclude "Woodworking Machine Setters, Operators, and Tenders" (51-7042) who specialize in one or a number of machine phases.
51-7021	Furniture Finishers	Shape, finish, and refinish damaged, worn, or used furniture or new high-grade furniture to specified color or finish.
51-7031	Model Makers, Wood	Construct full-size and scale wooden precision models of products. Include wood jig builders and loft workers.
51-7032	Patternmakers, Wood	Plan, lay out, and construct wooden unit or sectional patterns used in forming sand molds for castings.
51-7041	Sawing Machine Setters, Operators, and Tenders, Wood	Set up, operate, or tend wood sawing machines. Include head sawyers.
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	Set up, operate, or tend woodworking machines, such as drill presses, lathes, shapers, routers, sanders, planers, and wood nailing machines.
51-7099	Woodworkers, All Other	Include all woodworkers not listed separately.
51-8011	Nuclear Power Reactor Operators	Control nuclear reactors.
51-8012	Power Distributors and Dispatchers	Coordinate, regulate, or distribute electricity or steam.
51-8013	Power Plant Operators	Control, operate, or maintain machinery to generate electric power. Include auxiliary equipment operators. Exclude "Nuclear Power Reactor Operators" (51-8011).
51-8021	Stationary Engineers and Boiler Operators	Operate or maintain mechanical equipment to provide utilities for buildings or industrial processes.
51-8031	Water and Liquid Waste Treatment Plant and System Operators	Operate or control an entire process or system of machines, often through the use of control boards, to transfer or treat water or liquid waste.
51-8091	Chemical Plant and System Operators	Control or operate an entire chemical process or system of machines.
51-8092	Gas Plant Operators	Distribute or process gas by controlling compressors to maintain specified pressures on main pipelines.
51-8093	Petroleum Pump System Operators, Refinery Operators, and Gaugers	Control the operation of petroleum refining or processing units.
51-8099	Plant and System Operators, All Other	Include all plant and system operators not listed separately.
51-9011	Chemical Equipment Operators and Tenders	Operate or tend equipment to control chemical changes or reactions in the processing of industrial or consumer products. Exclude "Chemical Plant and System Operators" (51-8091).
51-9012	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	Set up, operate, or tend equipment that extract, sort, or separate liquids, gases, or solids from other materials to recover a refined product. Include dairy processing equipment operators. Exclude "Chemical Equipment Operators and Tenders" (51-9011).
51-9021	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	Set up, operate, or tend machines to crush, grind, or polish materials.
51-9022	Grinding and Polishing Workers, Hand	Grind, sand, or polish, using hand tools or handheld power tools. Include chippers, buffers, and finishers.
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	Set up, operate, or tend machines to mix or blend materials. Exclude "Food Batchmakers" (51-3092).

DETAILED DESCRIPTIONS OF OCCUPATIONS

51-9031	Cutters and Trimmers, Hand	Use hand tools or handheld power tools to cut and trim a variety of manufactured items.
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	Set up, operate, or tend machines that cut or slice materials, including food. Exclude "Woodworking" (51-7042); Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic"(51-4031), and "Textile Cutting Machine Setters, Operators, and Tenders" (51-6062).
51-9032.05	BAADER Machine Setters, Operators and Tenders	Set up, operate or tend machines that cut, slice, debone, fillet, or skin seafood. Maintain and repair equipment.
51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	Set up, operate, or tend machines to shape and form products, including food. Exclude "Paper Goods Machine Setters, Operators, and Tenders" (51-9196) and "Shoe Machine Operators and Tenders" (51-6042).
51-9051	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	Operate or tend heating equipment other than basic metal, plastic, or food processing equipment.
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	Inspect, test, sort, sample, or weigh nonagricultural materials or products for defects, wear, and deviations from specifications.
51-9071	Jewelers and Precious Stone and Metal Workers	Design, fabricate, adjust, repair, or appraise jewelry, precious metals, or gems. Include diamond polishers and gem cutters and persons who perform precision casting and modeling of molds, or setting precious and semiprecious stones for jewelry and related products.
51-9081	Dental Laboratory Technicians	Construct and repair full or partial dentures or dental appliances. Exclude "Dental Assistants" (31-9091).
51-9082	Medical Appliance Technicians	Construct, fit, maintain, or repair medical supportive devices and other surgical and medical appliances.
51-9083	Ophthalmic Laboratory Technicians	Cut, grind, and polish eyeglasses, contact lenses, or other precision optical elements. Assemble and mount lenses into frames or process other optical elements. Exclude "Opticians, Dispensing" (29-2081).
51-9111	Packaging and Filling Machine Operators and Tenders	Operate or tend machines to prepare industrial or consumer products for storage or shipment. Include cannery workers who pack food products except seafood cannery workers.
51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	Set up, operate, or tend machines to coat or paint any of a wide variety of products including food. Exclude "Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic"(51-4193) "Painters, Transportation Equipment" (51-9122) and "Painters, Construction and Maintenance" (47-2141).
51-9122	Painters, Transportation Equipment	Operate or tend painting machines to paint surfaces of transportation equipment. Include painters working in auto body repair facilities.
51-9123	Painting, Coating, and Decorating Workers	Paint, coat, or decorate by hand a wide variety of articles including jewelry, food, and books. Exclude "Artists and Related Workers", (27-1019) "Designers" (27-1020), "Photographic Process Workers" (51-9131), "Etchers and Engravers" (51-9194) and "Painters, Construction and Maintenance" (47-2141).
51-9131	Photographic Process Workers	Perform precision work involved in photographic processing using photomechanical, chemical, or computerized methods.
51-9132	Photographic Processing Machine Operators	Operate photographic processing machines.
51-9141	Semiconductor Processors	Manufacture electronic semiconductors. Use special purpose furnaces, X-ray equipment and chemical baths.
51-9191	Cementing and Gluing Machine Operators and Tenders	Operate or tend cementing and gluing machines to join items for further processing or to form a completed product. Exclude "Shoe Machine Operators and Tenders" (51-6042).
51-9192	Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders	Operate or tend machines to wash or clean products, including food and wood pulp, to remove impurities.
51-9193	Cooling and Freezing Equipment Operators and Tenders	Operate or tend equipment to cool or freeze products, including food, blood plasma, and chemicals.

DETAILED DESCRIPTIONS OF OCCUPATIONS

51-9194	Etchers and Engravers	Engrave or etch metal, wood, rubber, or other materials for identification or decorative purposes. Include such workers as etcher-circuit processors, pantograph engravers, and silk screen etchers. Photoengravers are included with "Prepress Technicians and Workers" (51-5022).
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	Mold, shape, form, cast, or carve products such as food products, figurines, tile, pipes, and candles.
51-9196	Paper Goods Machine Setters, Operators, and Tenders	Set up, operate, or tend paper goods machines that manufacture products from paper or paperboard sheets.
51-9197	Tire Builders	Operate machines to build tires from rubber components.
51-9198	Helpers Production Workers	Help production workers by performing duties of lesser skill. Apprentice workers are reported with the appropriate skilled production occupation.
51-9199	Production Workers, All Other	Include all production workers not listed separately.
51-9199.03	Food Processing Workers, All Other	Include all food processing workers not listed separately.
51-9199.05	Printing Workers, All Other	Include all printing workers not listed separately.

DETAILED DESCRIPTIONS OF OCCUPATIONS

TRANSPORTATION AND MATERIAL MOVING OCCUPATIONS

53-1011	Aircraft Cargo Handling Supervisors	Direct ground crew in the loading, unloading, securing, and staging of aircraft cargo or baggage. May accompany aircraft as member of flight crew and monitor and handle cargo in flight, and assist and brief passengers on safety and emergency procedures. Include loadmasters.
53-1021	Helpers, Laborers, and Material Movers, Hand Supervisors/ First Line Managers	Supervise and coordinate the activities of helpers, laborers, or material movers.
53-1031	Transportation and Material Moving Machine and Vehicle Operators Supervisors/First Line Managers	Directly supervise and coordinate activities of transportation and material-moving machine and vehicle operators and helpers.
53-2011	Airline Pilots, Copilots, and Flight Engineers	Pilot and navigate the flight of multiengine aircraft in regularly scheduled service for the transport of passengers and cargo. Requires Federal Air Transport rating and certification in specific aircraft type used. Include aircraft instructors with similar certification.
53-2012	Commercial Pilots	Pilot and navigate the flight of small fixed or rotary winged aircraft, primarily for the transport of cargo and passengers. Requires Commercial Rating. Include aircraft instructors with similar certification.
53-2021	Air Traffic Controllers	Control air traffic on and within vicinity of airport and movement of air traffic between altitude sectors and control centers. Authorize, regulate, and control commercial airline flights according to government or company regulations to expedite and ensure flight safety.
53-2022	Airfield Operations Specialists	Ensure the safe takeoff and landing of commercial and military aircraft. Duties include coordination between air-traffic control and maintenance personnel; dispatching; using airfield landing and navigational aids; implementing airfield safety procedures; monitoring and maintaining flight records; and applying knowledge of weather information.
53-3011	Ambulance Drivers and Attendants, Except Emergency Medical Technicians	Drive ambulance or assist ambulance driver in transporting sick, injured, or convalescent persons. Assist in lifting patients.
53-3021	Bus Drivers, Transit and Intercity	Drive bus or motor coach, including regular route operations, charters, and private carriage. May assist passengers with baggage. May collect fares or tickets. Drivers who transport the elderly, persons with disabilities or students are classified with "Bus Driver, School".
53-3022	Bus Drivers, School	Transport students or special clients, such as the elderly or persons with disabilities. Ensure adherence to safety rules. May assist passengers in boarding or exiting.
53-3031	Driver/Sales Workers	Drive truck or other vehicle over established routes or within an established territory and sell goods or pick up and deliver items. May also take orders and collect payments. Include newspaper and restaurant takeout delivery drivers. Exclude "Truck Drivers, Light or Delivery Services" (53-3033) and "Coin, Vending, and Amusement Machine Servicers and Repairers" (49-9091).
53-3032	Truck Drivers, Heavy and Tractor-Trailer	Drive a tractor-trailer combination or a truck with a capacity of at least 26,000 GVW. May be required to unload truck. May require use of automated routing equipment. Requires commercial drivers' license.
53-3033	Truck Drivers, Light or Delivery Services	Drive a truck or van with a capacity under 26,000 GVW. May require use of automatic routing or location software. May load and unload truck. Exclude "Couriers and Messengers" (43-5021) and "Driver/Sales Workers" (53-3031).
53-3041	Taxi Drivers and Chauffeurs	Drive automobiles, vans, or limousines to transport passengers. May occasionally carry cargo. Include hearse drivers. Exclude "Ambulance Drivers and Attendants, Except Emergency Medical Technicians" (53-3011) and "Bus Drivers" (53-3021).
53-3099	Motor Vehicle Operators, All Other	Include all motor vehicle operators not listed separately.

DETAILED DESCRIPTIONS OF OCCUPATIONS

53-4011	Locomotive Engineers	Drive locomotives to transport passengers or freight. Interpret train orders, electronic or manual signals, and railroad rules and regulations.
53-4012	Locomotive Firers	Monitor locomotive instruments and watch for dragging equipment, obstacles on rights-of-way, and train signals during run. Watch for and relay traffic signals from yard workers to yard engineer in railroad yard.
53-4013	Rail Yard Engineers, Dinkey Operators, and Hostlers	Drive switching or other locomotive or dinkey engines within railroad yard or similar location.
53-4021	Railroad Brake, Signal, and Switch Operators	Operate railroad track switches. Couple or uncouple rolling stock to make up or break up trains. Signal engineers by hand or flagging. May inspect couplings, air hoses, journal boxes, and hand brakes.
53-4031	Railroad Conductors and Yardmasters	Coordinate activities of train crew on passenger or freight train, and coordinate activities of switch-engine crew within railroad yard. Yardmasters coordinate activities of workers engaged in railroad traffic operations.
53-4041	Subway and Streetcar Operators	Operate subway or elevated suburban train with no separate locomotive, or electric-powered streetcar to transport passengers. May handle fares.
53-4099	Rail Transportation Workers, All Other	Include all rail transportation workers not listed separately.
53-5011	Sailors and Marine Oilers, Deckhands	Stand watch to look for obstructions in path of vessel, measure water depth, turn wheel on bridge, or use emergency equipment as directed by captain, mate, or pilot. Break out, rig, overhaul, and store cargo handling gear, stationary rigging and running gear. Perform a variety of tasks to maintain ship, line and equipment. Must hold government-issued certification and tankerman certification when working aboard liquid-carrying vessels. Include able seamen and ordinary seamen.
53-5021	Captains, Mates, and Pilots of Water Vessels	Command or supervise operations of ships and water vessels that travel into and out of harbors, estuaries, straits, and sounds and on rivers, lakes, bays, and oceans. Required to hold license issued by U.S. Coast Guard. Exclude "Motorboat Operators" (53-5022).
53-5022	Motorboat Operators	Operate small motor-driven boats to carry passengers and freight between ships, or from ship to shore. May patrol harbors and beach areas. May assist in navigational activities.
53-5031	Ship Engineers	Supervise and coordinate activities of crew engaged in operating and maintaining engines, boilers, deck machinery, and electrical, sanitary, and refrigeration equipment aboard ship.
53-6011	Bridge and Lock Tenders	Operate and tend bridges, canal locks, and lighthouses to permit marine passage on inland waterways, near shores, and at danger points in waterway passages. May supervise such operations.
53-6021	Parking Lot Attendants	Park automobiles or issue tickets for customers in a parking lot or garage. May collect fee.
53-6031	Service Station Attendants	Service automobiles, buses, trucks, boats, and other automotive or marine vehicles with fuel, lubricants, and accessories. Collect payment for services and supplies.
53-6041	Traffic Technicians	Conduct field studies to determine traffic volume, speed, effectiveness and adequacy of factors influencing traffic conditions, under direction of traffic engineer.
53-6051	Transportation Inspectors	Inspect equipment or goods concerning the safe transport of cargo or people. Include rail transport inspectors and other nonprecision inspectors of other types of transportation vehicles.
53-6099.02	Air Transportation Workers, All Other	Include all air transportation workers not listed separately.

DETAILED DESCRIPTIONS OF OCCUPATIONS

53-6099.05	Water Transportation Workers, All Other	Include all water transportation workers not listed separately.
53-7011	Conveyor Operators and Tenders	Control or tend conveyors or conveyor systems that move materials or products. May control speed and routing of materials or products.
53-7021	Crane and Tower Operators	Operate mechanical boom and cable or tower and cable equipment to lift and move materials, machines, or products in many directions. Exclude "Excavating and Loading Machine and Dragline Operators" (53-7032).
53-7031	Dredge Operators	Operate dredge to remove sand, gravel, or other materials from lakes, rivers, or streams; and to excavate and maintain navigable channels in waterways.
53-7032	Excavating and Loading Machine and Dragline Operators	Operate or tend machinery equipped with scoops, shovels, or buckets, to excavate and load loose materials. Exclude "Dredge Operators" (53-7031).
53-7033	Loading Machine Operators, Underground Mining	Operate underground loading machine to load coal, ore, or rock into shuttle or mine car or onto conveyors.
53-7041	Hoist and Winch Operators	Operate or tend hoists or winches to lift and pull loads using power-operated cable equipment. Exclude "Crane and Tower Operators" (53-7021).
53-7051	Industrial Truck and Tractor Operators	Operate industrial trucks or tractors equipped to move materials around a warehouse, storage yard, factory, construction site, or similar location. Exclude "Logging Equipment Operators" (45-4022).
53-7061	Cleaners of Vehicles and Equipment	Wash or otherwise clean vehicles, machinery, and other equipment. Exclude "Janitors and Cleaners, Except Maids and Housekeeping Cleaners" (37-2011).
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	Manually move freight, stock, or other materials. Include all unskilled general and manual laborers, except construction workers, not elsewhere classified. Exclude "Material Moving Workers" (53-7199) who use power equipment. "Construction Laborers" (47-2061) and "Construction Trades Helpers" (47-3019).
53-7063	Machine Feeders and Offbearers	Feed materials into or remove materials from machines or equipment that is automatic or tended by other workers.
53-7064	Packers and Packagers, Hand	Pack or package by hand a wide variety of products and materials.
53-7071	Gas Compressor and Gas Pumping Station Operators	Operate engine driven compressors. Transmit, compress, or recover gases.
53-7072	Pump Operators, Except Wellhead Pumps	Tend, control, or operate power-driven, stationary, or portable pumps and manifold systems to transfer materials to and from various vessels and processes.
53-7073	Wellhead Pumps	Operate power pumps and auxiliary equipment to produce flow of oil or gas from wells in oil field.
53-7081	Refuse and Recyclable Material Collectors	Collect and dump refuse or recyclable materials from containers into truck. May drive truck.
53-7111	Shuttle Car Operators	Operate shuttle car in underground mine to transport materials from working face to mine cars or conveyor.
53-7121	Tank Car, Truck, and Ship Loaders	Load and unload chemicals and bulk solids into or from tank cars, trucks, or ships using material moving equipment. May perform a variety of other tasks relating to shipment of products. May gauge or sample shipping tanks and test them for leaks.
53-7199	Material Moving Workers, All Other	Include all material moving workers not listed separately. Includes ramp agents, Longshoremen.